File No.	160975	Committee Item No3	3	
_		Board Item No.		

COMMITTEE/BOARD OF SUPERVISORS

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Committee:	Government Audit and Oversight	Date April 28, 2017					
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	Introduction Form	Von Domont					
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	Grant Information Form						
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OTHER	(Use back side if additional space is	needed)					
	DDI Marina 44/20/46						
	DBI Memo - 11/29/16 DBI Memo - 10/31/16						
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X	Mayor Lee to Senator Feinstein Memo						
X							
	Senator Feinstein to Mayor Lee Memo						
	Supervisor Peskin Memo to Chief Resil	lience Officer - 09/20/16					
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	Supervisor Peskin Memo to Chief Resil Supervisor Peskin Memo to DBI Director Oath to Witness - 2/2/17 Jack Moehle Submittal - 2/2/17	lience Officer - 09/20/16 or Hui - 09/12/16					
X	Supervisor Peskin Memo to Chief Resil Supervisor Peskin Memo to DBI Director Oath to Witness - 2/2/17 Jack Moehle Submittal - 2/2/17 oy: Erica Major Date	lience Officer - 09/20/16					

Board of Supervisors City and County of San Francisco

Government Audit and Oversight Committee February 2, 2017 ◆ 9:30 a.m.

Prepare to affirm this oath by raising your right hand, and affirm by saying "I do."

"You do solemnly state that the testimony you may give in the hearing now pending before this Government Audit and Oversight Committee, of the San Francisco Board of Supervisors in the City and County of San Francisco, shall be the truth, the whole truth, and nothing but the truth - so help you God."

When recalling the witness:

"Mr. Mohele, I will remind you, you have been previously placed under oath and remain so. Please take the podium, and re-state your name for the record.

Civil Procedure Oath to Witness (Chapter Law 688, Statutes of 2000) Dated: February 2, 2017

JPM 1



MILLENNIUM PARTNERS
735 Market Street, 3rd Floor
San Francisco, CA 94103
415.537.3890 Tel
415.537.3895 Fax
SPatterson@MillenniumPtrs.com

160975 SUBMITTED BY TROL MUEHLE 62/02/2017 PG 1/6

FACSIMILE TRANSMITTAL SHEET

DATE:

July 12, 2004

to:

Jack. P. Moehle

FAX NO.:

925-949-7595/415-398-9834

FROM:

Steve Patterson

Sh.

RE:

Contract Acceptance

TOTAL PAGE(S)

6

□urgent ⊠please handle ☐FOR YOUR INFORMATION ☐PER YOUR REQUEST

☐FOR REVIEW / COMMENT ☐FOR YOUR FILES

NOTES/COMMENTS:

See attached,



MILLENNIUM PARTNERS

735 Market Street, 3rd Floor San Francisco, CA 94103 415.537.3890 Tel 415.537.3895 Fax

July 12, 2004

Jack P. Moehle Consulting Civil Engineer 3444 Echo Springs Road Lafayette, CA 94549

RE:

301 Mission Street Project Structural Design Review Services

Dear Jack:

I am pleased to accept your proposal to provide Structural Design Review Services for the above mentioned project. As you are aware De-Simone Consulting Engineers are currently designing the concrete structure for the project. Please work directly with them to analyze the structural system they have proposed for this residential high rise tower and keep me informed as your review progresses.

The timing of your review is very important to our design schedule. Should you recommend changes to the structural system, we will need to know as soon as possible so that design development drawings can progress. I would particularly like to know your views on the proposed traditional shear wall core and frame system vs performance design.

Also for your information, I have Webcor Builders on board as my preconstruction contractor, currently working through estimates and constructability issues.

Please call me if you have any questions.

Sincerely,

New York

Boston

Washington, D.C.

Miami

Steve Patterson

Jack P. Moehle-

4152749150

Consulting Civil Engineer

3444 Echo Springs Road Lafayette, CA 94549 Ph. (925) 937-5225 FAX (925) 949-7595

12 July 2004

Mr. Steve Patterson, Owner's Representative Millennium Partners
735 Market Street, 3rd Floor
San Francisco, CA 94103
SPatterson@millenniumptrs.com
Office: (415) 537-3890
Mobile: (415) 902-0523

RE:

Proposed scope of structural design review services 301 Mission Street Project in San Francisco, California DeSimone Project # 4069B

Dear Mr. Patterson:

Fax: (415) 537-3895

At the request of Stephen DeSimone and Ron Polivka of DeSimone, I am pleased to submit my proposal for structural design review services for the above referenced project.

1) DESCRIPTION OF THE PROJECT

301 Mission Street Project is a proposed residential high-rise tower with basement, located at 301 Mission Street in San Francisco, California. The current design shows 60 floors, totalling approximately 600 feet above grade, with several basement levels extending below grade.

The proposed structural system uses cast-in-place reinforced concrete construction. A dual system of cast-in-place concrete shear wall core and frame with mild (nonprestressed) reinforcement resists gravity and lateral loads. Floor slabs may comprise cast-in-place mild or post-tensioned concrete floor slabs. The foundation currently is contemplated to be a concrete mat.

The proposed design is anticipated to satisfy requirements of the applicable Building Code. Special considerations include the relatively tall height in comparison with other similar projects in regions of high seismicity in the US. Some review and discussion of the applicability of Building Code provisions may be required in consideration of the building height, as outlined in the scope of services, below.

2) SCOPE OF SERVICES

Review analysis & design assumptions and results. Provide technical suggestions. This
review may include but not necessarily be limited to



12 July, 2004, Page 2

4152749150

- Design methodology and sequence;
- ii) Earthquake design basis, including the applicability of design basis earthquake and/or maximum considered earthquake design levels; associated design response spectra and ground motions;
- iii) Modeling and analysis methods;
- iv) Building strength, stiffness and ductility; proposed R value and stiffness assumptions;
- Concrete, rebar, and other material acceptance values (e.g., stress and strain limits);
- vi) Allowable displacements/drifts and procedures for their determination;
- vii) Review analysis results to check reasonableness and consistency with design assumptions and detailing provisions.
- Review selected structural drawings, with particular attention placed to detailing practices. Provide technical comments and suggestions, including
 - Early identification of special problem areas, considering constructability and force and ductility demands;
 - Typical reinforcement, confinement and splice details for consistency with design criteria, special details to provide increased toughness for unanticipated loadings and to ensure vertical load integrity;
 - iii) Quality control / Quality assurance in drawing notes and specifications. Special inspection provisions in drawing notes and specifications.
- Participate in occasional technical discussion meetings with either members of the DeSimone staff or with the 301 Design Team.
- d) Attend as-required meetings with City Officials and other Peer Review Panels.
- Provide technical assistance in responding to comments from City and Peer Review Panels.

3) CLIENT RESPONSIBILITY

- a) Provide all applicable drawings, specifications, and other data, including subsurface and foundation data, geotechnical engineers report & foundation design recommendations, and drawings prepared by the Engineer of Record.
- b) Provide copies of all pertinent letters and memoranda pertaining to design of the various disciplines and Owner's requirements.

4) FEES

a) Basic Fee

- i) The above-mentioned scope of services will be completed on a timecard basis.
- ii) The hourly rate for engineering effort of Jack P. Moehle will be \$190 per hour.
- iii) Based on the above scope of work, it is estimated that the the effort by Jack P. Mochle can be completed within \$25,000. Client will be informed of progress relative to this estimate, and total billing for services will not exceed the estimate without Client's prior approval.
- iv) Fees are payable within 60 days of date of invoice.

b) Expenses

The following expenses are excluded from, and in addition to, the basic fee and shall be billed at cost:

12 July, 2004, Page 3

(1) Travel and out-of-town living and related expenses, long distance telephone calls, fax, courier service and express mail.

5) STANDARD CONDITIONS

The Standard Terms and Conditions for work done by Jack Moehle, which are attached hereto, are made part of the Agreement.

Hook forward to your response to my proposal.

Very truly yours,

are former and an area and

Jack P. Moehle, P.E., Ph.D.

ACCEPTED AND AGREED TO: Millennium Partners

DV.

Steve Patterson

DATE:

7/12/04

TERMS AND CONDITIONS

Consultant and Client will be jointly referred to as "we," or "us,"

4152749150

Services: Consultant will provide the Professional Services contemplated herein in accordance with the standards of competent professionals providing similar services under similar conditions. Consultant does not warrant or guarantee the Services.

Fess for Professional Services: Unless otherwise agreed in writing, Services will be billed on a timeand-materials basis using Consultant's current schedule of fees and costs. Limitations on the amount to be billed are estimates only, and are not an agreement by Consultant that the Services will be completed for the estimated amount. All time, including travel hours, spent on the project by professional, technical, and clerical personnel will be billed.

Reimbursable Expenses: Travel expenses and accommodations necessary for execution of the project including business class air fares, rental vehicles, and highway mileage in company or personal vehicles at going rates are billed directly. Other expenses directly attributable to the project are billed at cost, including telephone and fax charges, postage and freight, printing and reproduction, and computer fees.

Payment: Client will pay Consultant's invoices no later than sixty (60) days after the invoice date, Client will also pay a late payment charge at the rate of 1.5% per month after that date. At Consultant's option, Consultant may suspend or terminate this Agreement if payments are not made when due.

Site Access: Unless the Scope of Services described in this Agreement states otherwise, Client will obtain all necessary authorizations and permits to allow Consultant to have access to the site for the purpose of providing the Services contemplated herein.

Limitation of Liability. Consultant's liability, and the liability of its employees and/or subcontractors, to Client for damages, including cost of defense, arising from Services is limited to an aggregate \$25,000 or Its fees received under this Agreement, whichever is less. Neither Client nor Consultant will be liable for consequential damages incurred by either party.

Mediation: Prior to any litigation, arbitration, or other proceeding, both parties will attempt to mediate any dispute between them. The American Arbitration Association will conduct the mediation, unless otherwise agreed. Consultant and Client will equally share all fees and costs of the mediation.

Termination: Either Client or Consultant may terminate this Agreement for convenience by giving fourteen (14) days written notice. Either party may terminate this Agreement for cause by giving seven (7) days written notice. If this Agreement is terminated by Client, Client shall pay Consultant, in addition to any other compensation due under this Agreement, any amount incurred by Consultant in performing Services, and in orderly terminating Services.

Full and Final Agreement: This Agreement is the full and final agreement between Client and Consultant, supersedes any prior agreements, and may not be modified except by a writing executed by both parties.

DESIMONE

SUBMITTED BY TROP WELLE 07/07/2017 PG 1/4

160975

Design Criteria, Analysis Methodology, and Peer Review Process

301 Mission Street San Francisco, CA

Prepared for:

San Francisco Department of Building Inspection

1660 Mission Street 2nd Floor San Francisco, CA 94103

Prepared by:

DeSimone Consulting Engineers, PLLC

10 United Nations Plaza, Suite 410 San Francisco, CA 94102

> DeSimone Project #4069 March 22, 2005

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Appendix A. Middlebrook + Louie Peer Review Correspondence

Project Summary

The 301 Mission Street project consists of two separate structures located on the same site. The western structure (tower) is a 58-story, 605-foot tall building over a single subgrade level. The eastern structure (mid-rise) is a 12-story, 128-foot tall building over five subgrade levels. The two structures are connected at the B1, Ground, 2^{nd} , and 3^{rd} Floors. All portions of the project are being designed in conformance with the 2001 San Francisco Building Code.

Gravity Systems

Both structures are to be of cast-in-place concrete construction. The upper floor levels of both structures will utilize post-tensioning for the floor slabs.

Lateral System - Tower

The tower structure relies on a dual lateral system comprised of concrete shear walls with outriggers, and concrete special moment-resisting frames. This system is "regular" as defined by UBC 1629.5.2. For this reason the forces calculated by UBC 1630.2 have been reduced by 80% as allowed by 1631.5.4.2.

Two drift checks have been performed for the tower:

- 1. Per UBC. Forces scaled to base shear neglecting both equations (30-6) and (30-7), and including 5% accidental mass eccentricity.
- 2. Per 2003 NEHRP. Forces scaled to base shear including equation (30-6), but neglecting torsional effects. (Drifts are taken at center of mass). This second approach is widely held as the appropriate check for tall buildings with long periods, and was recommended for use on this project by Professor Jack Moehle of U.C. Berkeley.

Lateral forces in the tower are to be transmitted by the core walls and the columns all the way to the pile cap at B1. The ground floor slab is not required to transfer forces to the perimeter basement walls. This will allow the ground floor slab to be provided with numerous steps, depressions, and openings that are typically needed to accommodate architectural requirements.

Lateral System - Mid-Rise

The mid-rise building relies solely on a concrete shear wall system. Due to the eccentricity of the shear walls relative to the center of mass of the building, the mid-rise building exhibits a slight torsional irregularity. For this reason the base shear cannot be reduced by 80% in accordance with 1631.5.4.2.

The core walls of the mid-rise building, unlike those of the tower, will have the shear shifted to the perimeter basement walls through the ground floor diaphragm.

301 Mission Street San Francisco, CA DESIMONE
Project # 4069

Materials

Concrete strengths in the tower walls and frames will vary between 7 and 10 ksi. Strengths in the mid-rise walls will be 7 to 8 ksi. All floor slabs will be 5 ksi.

The shear walls in both buildings, as well as the moment frames in the tower, will use Grade 75 reinforcing for bars larger than #8's. All shear wall confinement steel will also be Grade 75 for areas where the concrete strength is 8 ksi and higher.

Foundations

The tower foundation will consists of a 10-foot thick pile cap supported by approximately 950 14-inch square, pre-cast concrete piles. The bottom of the pile cap will be approximately 25' below the existing grade. The initial vertical pile displacement due to slippage required to fully engage the pile is expected to be approximately 1" by the time of project construction completion. Additional long-term pile settlement due to compression of the underlying clay layers is expected to be as much as 5". As the piles are only located directly below the tower footprint, this settlement is expected to occur uniformly over the tower foundation area.

The mid-rise structure will rest on a mat foundation that varies between 6 feet and 8 feet in thickness. The bottom of this excavation will be approximately 63 feet below the existing grade. Tie-downs are required to resist hydrostatic uplift pressures under the portion of the deep excavation that is not directly below the mid-rise building, i.e., the area between the mid-rise and the tower.

Building Separation

As the foundations and lateral systems of the two buildings are completely separate, a joint will be placed between them at the B1, Ground, 2nd, and 3rd Floors. "Hinge slabs" will be detailed to accommodate differential settlement, as well as expected seismic displacements, between the two structures.

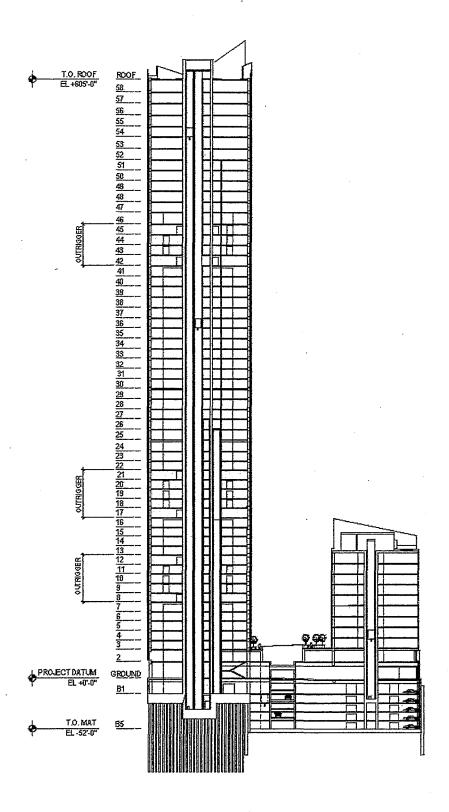


Figure 1. Building Section

Lateral Forces Summary

Tower	220,000
Mid-rise, above grade	47,341
Mid-rise, below grade	37,173

Table 1. Building Weight, kips

	Seismic Forces	Seismic Drift	Wind
Tower		·	
N-S	8,514	7,040	1,300
E-W	6,514	7,040	2,000
Midrise, above grade			
N-S	6,514	6,514	750
E-W	5,922	4,100	450

Table 2. Summary of Lateral Forces, kips

DESIMONEProject #4069

Table 3. Tower Base Shear

		N-S		E-W		
Basic Structural System:		8.5		8.5		Table 16.N
Height of Building	h _n =	605	ff	605	ff	~
Seismic Zone	Z=	0.40		0.40		Table 16.1
Near-Source Factor	Na=	1.00		1.00		Table 16-S
Near-Source Factor	N _v =	1.064		1.064		Table 16-T
Soil Profile Type	,	SD		SD		
Seismic Coefficients	Ca=	0.44	*Na	0.44	*Na	Table 16.Q
	=	0.440	*N1	0.440	* N T	T-1-1- 14 D
	Cv= =	0.64 0.681	*N _v	0.64 0.681	*N _v	Table 16.R
	-	0.001		0.001		
	C _t =	0.020		0.020		
Importance Factor	l=	1.00		1.00		Table 16-K
Calculate the period of the bu	-		\ :			
$T_A=C_t(h_n)^{3/4}$	T _A =	2.44	sec	2.44	sec	•
Building period from ETABS and	alveie					•
banding period north ETABS and	T _B =	5.47		5.84	•	
	19	0.47		. 0.04		
Maximum period for determin	ing forces:					
$T_{MAX} = 1.3 \times T_{A}$	T _{MAX} =	3.17		3.17		
Building period to be used for						
Calculate the design base she	T=	3.17	e.	3.17		
$V = (C_v * I / (RT)) W$	a, v, 10 us ≃	0.0253	ა. *W	0.0253	*W	Egn 30-4
$V = (2.5 C_a I W) / R$	=	0.1294	*W	0.1294	*W	Egn 30-5
$V \ge 0.11 \text{CalW}$	=	0.0484	*W	0.0484	*W	Egn 30-6
$V >= ((0.8 \text{ Z N}_{v}1)/R)W$	=	0.0401	*W	0.0401	*W	Eqn 30-7
	V =	0.0484	*W	0.0484	*W	_9
Reduce the above by 80% since building is regular:						
	V =	0.0387	*W	0.0387	*W	
Calculate the design base she	ar V ta ua	a for displ	romont			
Calculate the design base she	an, v, io us T _B =	e ioi dispid 5.47	acmem	s. 5.84		
	16-	0.47		5.04		
$V = (C_v^*I/(RT))W$	=	0.0146	*W	0.0137	*W	Egn 30-4
$V \leftarrow (2.5 \text{CalW}) / \text{R}$	=	0.1294	*W	0.1294	*W	Egn 30-5
$V >= 0.11 C_{\alpha} I W$	=	N/A	*W	N/A	*W	Eqn 30-6
$V = ((0.8 \text{ Z N}_{V}I)/R)W$	=	0.0401	*W	0.0401	*W	Egn 30-7
	V =	0.0401	*W	0.0401	*W	•
Reduce the above by 80% sine	_	-		_		
	V =	0.0320	*W .	0.0320	*W	

DESIMONE
Project # 4069

301 Mission - Tower Design Spectra

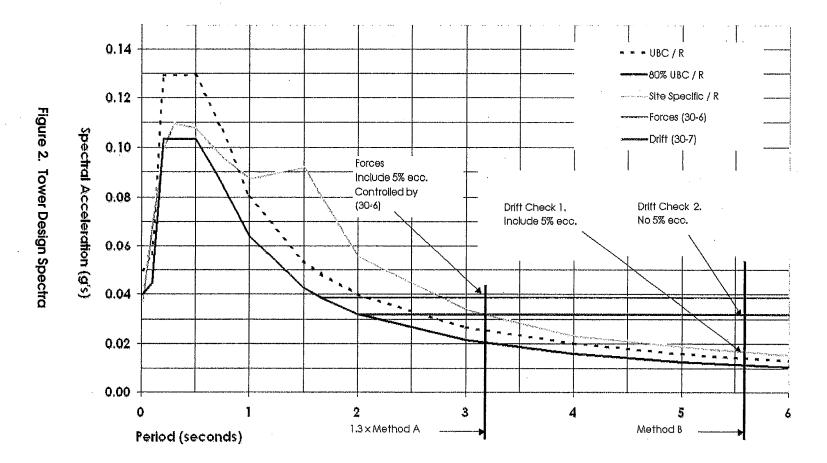
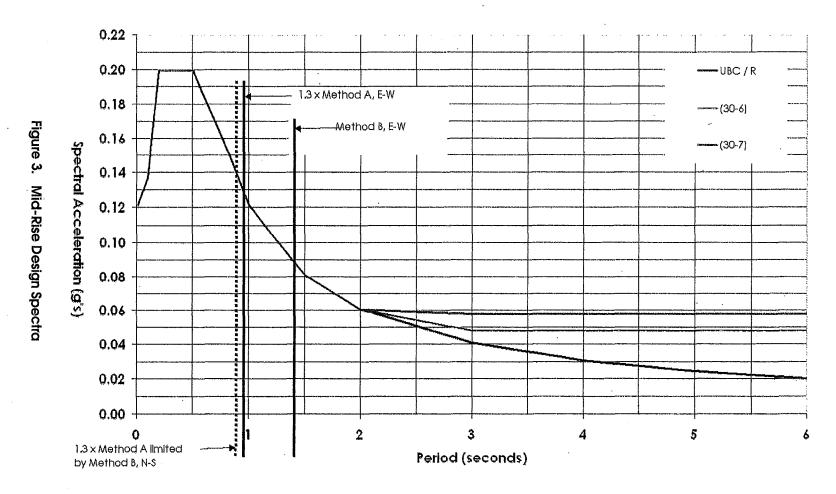


Table 4. Mid-Rise Base Shear

	David Ohmank wall Carbons	D	N-S		E-W		Talala IZNI
	Basic Structural System: Height of Building	R= hn=	5.5 128	ft	5.5 128	ft	Table 16.N
	Seismic Zone	Z=	0.40	**	0.40		Table 16.1
	Near-Source Factor Near-Source Factor	Na= Nv=	1.00 1.064		1.00 1.064		Table 16-S Table 16-T
	Soil Profile Type Seismic Coefficients	Ca= =	SD 0.44 0.440	*Na	SD 0.44 0.440	*Na	Table 16.Q
		Cv= =	0.64 0.681	*N _v	0.64 0.681	*N _v	Table 16.R
	Importance Factor	C+= l=	0.020 1.00		0.020 1.00		Table 16-K
Calcu	late the period of the buildir	ng using M	ethod A:				
	$T_A=C_t(h_n)^{3/4}$	T _A =	0.76	sec	0.76	sec	
Buildir	ng period from ETABS analysi	is: T _B =	1.43		0.90		
Maxin	num period for determining $T_{MAX} = 1.3 \times T_{A}$	forces: T _{MAX} =	0.99		0.99		
	THE THE REAL PROPERTY OF THE PERTY OF THE PE	11412-0	0.,,		0.,,		
Buildir	ng period to be used for forc	es: T=	0.00		0.00		
		l=	0.99		0.90		
	late the design base shear,	V, to use f					
V = V <=	(C _v *1/(RT)) W	****	0.1251	*W	0.1376	*W	Eqn 30-4
	(2.5 C _a I W) / R 0.11 C _a I W	=	0.2000 0.0484	*W *W	0.2000 0.0484	*W *W	Ean 30-5 Ean 30-6
	((0.8 Z N _v 1)/R)W	≖.		*W	0.0619	*W	Ean 30-7
.• >-		V =	0.1251	*W	0.1376	*W	Eq. 100 7
Calou	late the design base shear	\/ to uso f	or diamia				
Culcu	late the design base shear,	V, IO use in	1.43	Citienis	o.90		
V = V <=	(C _v *1/(RT))W (2.5 Cal W)/R	=	0.0866 0.2000	*W *W	0.1376 0.2000	*W *W	Eqn 30-4 Eqn 30-5
V >=		=	N/A	*W	N/A	*W	Eqn 30-6
V >=	((0.8 Z N _v I)/R)W	=	0.0619	*W	0.0619	*W	Eqn 30-7
	\	V =	0.0866	*W	0.1376	*W	

301 Mission - Midrise Design Spectra

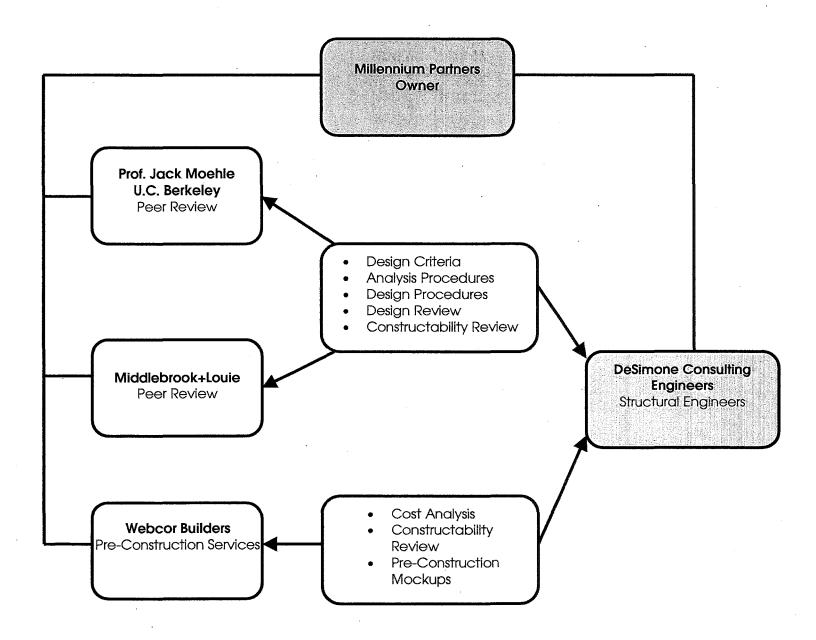


Structural Engineering and Peer Review Team

Webcor Builders have been involved in the design process since early in 2004 in order to provide cost estimating and constructability feedback and assistance to the project design team.

Additional technical expertise has been brought to the team by Professor Jack Moehle of U.C. Berkeley, who has been advising on the project since July of 2004.

Middlebrook + Louie of San Francisco are also performing an independent peer review of the entire project design.



Peer Review by Professor Jack Moehle, U.C. Berkeley

Professor Moehle has consulted with DeSimone on the design of the tower portion of the project since July 2004. His contribution to the design, especially in the area of appropriate analysis assumptions, has been significant. The following summarizes the significant key points of our numerous discussions and meetings:

Regular vs. Irregular

The tower lateral system configuration, which incorporates the combination of concrete outrigger walls and columns acting together with the central core walls, represents a "regular" structure as defined by UBC 1629.5.2.

Force Level

So long as the structure can be classified as "regular", and since site specific design spectra have been provided by the Geotechnical Engineer, it is appropriate to use 80% of the base shear determined in accordance with UBC 1630.2. (See UBC 1631.5.4.2)

Due to the long period, the base shear used for determining all reinforcing, member sizes, etc. will be controlled by 80% of the value obtained with Eq. (30-6).

Drift Limits

UBC 1630.10.3 allows the designer to ignore Eq. (30-6) and Eq. (30-7) when checking building displacements and inter-story drifts. When checking drifts at this lower force level the designer must include 5% accidental torsion per 1630.6.

Professor Moehle recommended a second drift check be performed per the 2003 NEHRP provisions, whereby the higher base shear associated with Eq. (30-7) is used. At this force level the building drifts can be checked at the center of mass, thereby effectively ignoring any contribution to drift resulting from the 5% accidental torsion.

Effective Stiffness

The same effective concrete stiffness modifiers should be used for checking both drifts and forces.

The axial modifiers used for the outrigger columns, as well as those of the moment frames, are the average of tension-only (approx. 0.10) and compression-only (approx. 1.1) values. This averaging is appropriate for modal analysis, since directionality of forces cannot be controlled.

Bending modifiers for the core should range from 0.7 for cracked sections, to 0.9 or even 1.0 for locations where analysis shows sections are un-cracked for a MCE event.

A shear modifier of 0.4 is appropriate for all elements.

Rebar Strenath

Use of Grade 75 rebar should be acceptable for use in the lateral system so long as ductility requirements similar to those of ASTM A706 can be obtained.

301 Mission Street San Francisco, CA

DESIMONE Project # 4069

Concrete Modulus

Modulus of Elasticity of concrete should be computed based on the equation given by ACI 363 for high strength concrete. The equation given by ACI 318 is not appropriate for concrete in the 8 – 10 ksi range planned for use on this project.

Foundation design

A capacity design approach should be used for the pile cap. The capacities of the outrigger columns and the core walls should be used to determine pile cap reinforcing. These forces could be capped at $\Omega_{\rm o}$ times the seismic forces obtained through modal analysis, if combined appropriately with gravity forces.

Shear wall design

The box-shaped area around each of the stairs at the north and south ends of the core will act as solid units and could be designed as such. Doing so would not require any length of wall beyond the code-required 0.25 Lw to be confined as a boundary element.

It is appropriate to consider horizontal wall reinforcing as able to simultaneously resist horizontal shear and provide confinement within boundary element regions.

Outrigger design

A capacity design approach should be used for the outriggers. The single-story height areas where the concrete outrigger walls connect to the columns should be designed as concrete link beams with diagonal reinforcing. The portions of the outriggers between the link beams and the core walls should then be designed for the capacities of the link beams to insure the ductility demand is concentrated in the link beams. The outrigger columns should also be designed for the capacities of the link beams.

Steel Link Beams

The steel beams used to link the wall segments running north-south in the core area should be designed as structural steel eccentrically braced frame (EBF) links. No penetrations should be allowed in these beams.

The use of built-up shapes from plate material should be acceptable so long as the webs are welded to the flanges with complete penetration welds.

Peer Review by Middlebrook + Louie, San Francisco, CA

Middlebrook + Louie of San Francisco are presently engaged in a peer review of the project. The following timeline summarizes the course of related events to date.

- January 24, 2005. M+L was introduced to the project by attending the weekly structural review meeting at DeSimone's office with Webcor and Millenium Partners in attendance.
- January 31, 2005. M+L and DeSimone met independently at DeSimone's office to discuss the basic design criteria and the Schematic Design drawings issued on November 3, 2004.
- February 28, 2005. M+L issued their initial peer review comments.
- March 14, 2005. M+L observed first concrete mockup completed by Webcor. DeSimone, Webcor, and Millennium Partners in attendance.
- March 18, 2005. DeSimone responded to M+L's February 28 comments.

REVIEW LETTERS

SUBMITTED BY TACK WEHLE

JPM 3/9



MINDIANCOM + LOUSE Structural Engineers

One Bush Street Suite 250 Son Francisco, CA 94104 415.477.9000 Fax.415.477.5099 emoil milbor@HylinLoom

Jason J.C. Louis, S.E. Romaid F., Middlebreck, S.E. Hardip S., Parnu, S.E. Rebert D., Hallaring, S.E. Jappas Lerson, E.R. NG, S.E. Novin R. Amin, S.E.

- July 20, 2005

Haison Tom City and County of San Francisco 1660 Mission Street, 2nd Floor San Francisco, CA 94103

RE 301 Mission Street—Sile Permit Only Sart Francisco, California M+1 Job #8977

IWe have reviewed the design criteria prepared by DeSimone Consulting Engineers for the 301 Mission Street project dated July 20, 2005 for the Site Permit Submitted Only and find it to be acceptable. The Structural Peer Review is ongoing at this time and more information will become part of the Design Criteria.

MIDDLEBROOK+LOUIE

Hardip S. Pannu, S.E. Principal

HSP/rhc

HPANNU@MPILISL.com

NUMBERSON STREET THE BOOK TO THE BOOK

Jack P. Moehle-Consulting Civil Engineer

3444 Echo Springs Road Lafayette, CA 94549 Ph. (925) 937-5225 FAX (925) 937-5225

25 July 2005

City and County of San Francisco 1660 Mission Street 2nd Floor San Francisco, CA 94103

Alint

Ra:

Hanson Torn 301 Mission Street – Structural Design Criteria

Mr. Tom,

I have reviewed the design citiesta prepared by Destimone Consulting Engineers for the 301 Mission Street project dated July 20, 2005 and find It acceptable for use on the project,

Respectfully.

JAR Morale

Jock P. Moehle, Ph.D., PE



MIDDLEBROOK + LOUIE Structural-Engineers

August 30, 2065 Revised Jan 24¹¹, 2006

*Hereion Toin City and County of Sum Francisco 1660 Mission Sinest, 2nd Ficor Sam Francisco, CA 94103

RE: \$01 Mission Street—Foundation Permit Only Sen Francisco, California M+L Job #6977 One South Gloot Soin Formisco, CA 94454 415.477.9000 Fax.415.477.9063 Excel relocation for the

Lancon J.C. Emain, S.E. Promid P. Mildelancott, E.E. Reguler S. Promet, S.E. Jacobe Laman, E.R. Info, S.E. Regul Laman, E.R. Info, S.E. Regul R. Amit, S.E.

We have completed the poer review of the foundation system prepared by DeSimone Consuling Engineers for the SO1 Mission Street project dated Key 24, 2005 for the Foundation Permit Submitted Only including all the sinuclaral drawings listed on sheet SO.01 with following assumptions and expensions:

The design of the superstructure has not been completed at this time. Our understanding from meetings with DeSimone is that this superstructure's lateral system will be designed to comply with the following:

- The outriggers connecting to the central sheer core of the tower contains links connecting to the Special Moment-Fleelating Frame columns. These links will be designed to remain electronist this code-prescribed Gravity, Wind and Selemic load combinations; including loads caused by column shortening effects in the buildings.
- The Special Moment Resisting Frame Columns will be designed to remain electic under gravity plus inside caused by the yielding of cultrigger link. In order to entere this behavior, the casedies of the outrigger links will be calculated and increased by an over-strength factor. The resulting forces ware used as the selectic leads.
- The pile cap under the tower is designed to remain electic when subjected to the expectition of the Special Moment Facilities Frame/outrigger columns, as well as the expected maximum moment at the beautiful about wall core.
- We were not asked to review the effects of the Transbey Terminel project on this project.

The Structural Pear Perview is engoing at this time for the superstructure portion. It is our understanding that the scope of Middletmock + Louis's (M + L) review is to provide our projections opinions on the design based on the Building foods desting provisions. We also understand that M + L's review is limited to reviewing the structural system concepts and general design approaches for compliance with requirements of the building pode. It is not intended for M + L to verify the validity and/or correctness of any perticular numerical values in the design calculations.

MEDOLEBROOK + LOUIS

Hardip S. Parmu, S.E. Principal

Hardh Su

HSP/ric HPANNOMPLUST_COM News-Molinical.com Jack P. Mochle

29 Samuely 2006

History Tom City and County of San Francisco 1660 Mission Street 2nd Floor San Francisco, CA 64103

Affri:

Hanson Tom

Re

301 Mission Street-Foundation Fermit

Mr. Tom,

I have completed my peer review of the foundation system supporting materials prepared by DeSimone Consulting Engineers for the 301 Masters Street Project, Including:

the foundation permit calculations and drawings (dated 24 May 2005), including the 80 drawings listed on 50-010.

**Supplemental William distributions (dated 1 September 2005).

On the basis of my raview, it is my opinion that the foundation design is compliant with the principles and requirements of the building code, and that a foundation permit can be issued for this project.

This review is for the purpose of the foundation Permit Submittal only. The structural peer review is engoing at this time. It is my understanding that the scope of my review is to provide my professional opinion on the design based on the building code provisions, for the sole purpose of advising you in your capacity as the responsible building official. I also understand that my review is limited to the structural system concepts and general design approachs or compliance with the building code, it is not intended that my review verify any perticular numerical values in the design calculations. Furthermore, this review is no way accepts responsibility for the building design or the Issuance of permits, which remain responsibilities of the Engineer of Record and the San Francisco Department of Building Impection, respectively.

Respectfully,

THE MINEL

Jack P. Mostle, Ph.D., FE

21 June 2005 Project 3157.02

Mr. Gary Ho Department of Building Inspection City and County of San Francisco 1660 Mission Street, 2nd Floor San Francisco, California 94103-2414

Geotechnical Review of Structural Drawings (Application #2002/1023/9696)

301 Mission Street San Francisco, California

Dear Mr. Ho:

This letter presents the results of a review by Treadwell & Rollo, Inc. of the geotechnical aspects of the structural drawings for the 301 Mission Street project in San Francisco. The architect and structural engineers for the project are Gary E. Handel Architects, Inc. and DeSimone Consulting Engineers. respectively. We previously performed a gentechnical investigation for the project and presented our conclusions and recommendations in a report tilled "Geotechnical Investigation, 301 Mission Street, San Francisco, California" dated 13 January 2005.

We reviewed the gebtechnical aspects of the following documents:

Structural Drawings (Foundation Permit Set), Sheets S0.0.10, S0.0.20, S2-0.B5.11, SŽ-0.B1.11, S3-1.01, S3-1.11, S3-1.12, S3-1.13, S3-1.14, S3-1.15, S3-3.12 and S3-3.13, titled "301 Mission Street, Mission Street Development Partners LLC" prepared by DeSimone Consulting Engineers, dated 24 May 2005.

On the basis of our review, we conclude the gentechnical aspects of the design are in general conformance with the intent of the geotechnical recommendations presented in our 13 January 2005 report.

. We trust this letter provides the information requested. If you have any questions, please call,

Sincerely yours,

TREADWELL & ROLLO, INC.

Christopher A. Ridley

Civil Engineer

31570201.CAR ...

cc: :Mr. Steve Patterson -Millemium Partners

Mr. Gereld Sams - Gary E. Handel Architects Mr. Denick Roomis - DeSimone Consulting Engineers

Georgehnical Engineer



lin. Ison. Environmental & Geolectrolical Consultants 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Telephone (415) 955-9040 Facelmile (415) 955-9041



Jack P. Moehle.

Consulting Civil Engineer

3444 Echo Springs Road Lafayette, CA 94549 Ph. (925) 937-5225 FAX (925) 949-7595

12 June 2006

Hanson Tom City and County of San Francisco 1660 Mission Street 2nd Floor San Francisco, CA 94103

RE:

Independent Peer Review - Final

301 Mission Street Project in San Francisco, California

Dear Mr. Tom:

This letter summarizes the structural peer review conducted by the undersigned for the proposed 301 Mission Street project. The review is limited to the highrise tower and that portion of the substructure that is integrally attached to and supporting it; the review excludes the midrise tower. This peer review was conducted by the undersigned in parallel with independent review by engineers from Middlebrook + Louie. This letter documents only the review provided by the undersigned.

As noted on the project construction documents, dated 26 May 2006, this project consists of two separate structures located on the same site. This review is limited to the western structure (tower), which is a 58-story, 605-foot tall building over one sub-grade level. The eastern structure (mid-rise) is a 12-story, 128-foot tall building over five sub-grade levels. The two buildings are completely separate structurally, being connected through joints at the B1, Ground, 2nd, and 3nd filtors. The structures are to be of cast-in-place concrete construction. The floor slabs above grade level will be post-tensioned, whereas the lower slabs will use only mild reinforcement. The tower has a dual system comprising concrete shear walls with outriggers, and concrete special moment-resisting frames. The tower foundation consists of a 10-foot thick cap supported by precast concrete piles.

The basic criterion of the review is that it be in accordance with the requirements of the 2001 San Francisco Building Code. The specific elements of the review have included:

- The structural design concepts proposed by the Engineering of Record and their suitability for this building considering the building code requirements, the building site, and principles of machine.
- The structural design criteria, including appropriate prescriptive criteria of the building code and supplementary design procedures to account for unique components of the lateral force resisting system;
- 3. The design procedures and verification procedures to meet the code requirements:
- The project geotechnical report, as a basis for design of foundations and assessing seismic hazards;
- The architectural design and layout of the building, to develop an understanding of the building configuration and loading;
- 6. The analytical models used to evaluate compliance with the building code provisions;
- Summary calculations of dynamic response indicating compliance with the building code provisions;

12 June, 2006, Page 2

- Summary calculations of structural capacity of critical elements including piles, mat foundation, walls, columns, beams; beam-column joints, link beams, and outrigger beams;
- Detailing of critical elements of the structural system to ensure compliance with the criteria, compatibility with anticipated behavior modes, and constructability;
- The structural drawings, to confirm that design and modeling assumptions are consistent with the overall structural configuration, design, and detailing;
- The project specifications, to assure that critical aspects of the design and construction are appropriately portrayed.

In addition to the above, I relied on my own professional judgment derived through many years of professional practice, research, and participation in the development of design codes and standards.

My review was initiated in July of 2004, at which time Millennium Partners (the owners) hired me to review design work and advise them of its progress. Formal peer review work was initiated on 15 July 2005, at which time the San Francisco Department of Building Inspection requested that I act as an independent peer reviewer. In the period since then, I have reviewed several submittals of criteria, calculations, drawings, specifications, and supporting reports submitted by the Engineer of Record. I have met with the design team and with reviewers from Middlebrook + Louie several times to clarify questions, present comments, and reach resolution on the various technical issues that arose in the course of our review. The review process is documented in the document "Peer Review, Volumes 1 and 2," dated 31 May 2006, prepared by DeSimone Consulting Engineers.

I have completed my Independent peer review of the above-mentioned project, including the following supporting materials prepared by DeSimone Consulting Engineers for the 301 Mission Street Project;

- The foundation permit calculations and drawings (dated 24 May 2005), including the 80 drawings listed on S0-010;
- Supplemental written clarifications (dated 1 September 2005);
- The superstructure permit submittal (dated 18 November 2005);
- Various clarifications and modifications as documented in the "Peer Review, Volumes 1 and 2," dated 31 May 2006, prepared by DeSimone Consulting Engineers
- Addendums to the Foundation Permit drawings (Addendum-2 Structure, dated 11/18/2005; Addendum 2 Revisions, dated 03/06/2006; and Add2-Rev2 Peer Review, dated 05/26/2006).
 Review included the 103 sheets listed on the drawing index of sheet S0-0.10 dated 05/26/2006.

On the basis of my review as outlined above, it is my opinion that the tower design is compliant with the principles and requirements of the building code, and that a permit can be issued for its construction.

It is my understanding that the scope of my review is to provide my professional opinion on the design based on the building code provisions, for the sole purpose of advising you in your capacity as the responsible building official. I also understand that my review is limited to the structural system concepts and general design approaches for compliance with the building code. It is not intended that my review verify any particular numerical values in the deslign calculations. Furthermore, this review in no way accepts responsibility for the building design or the issuance of permits, which remain responsibilities of the Engineer of Record and the San Francisco Department of Building Inspection, respectively.

Respectfully.

Itch unale

Jack P. Moehle, Ph.D., PE



Jack P. Moehle.

Consulting Civil Engineer

3444 Echo Springs Road Lafayette, CA 94549 Ph. (925) 937-5225 FAX (925) 949-7595

29 June 2006

Mr. Hanson Tom Department of Building Inspection 1660 Mission Street, 2nd Floor San Francisco, CA 94103

Subject:

Termination of Post Tensioning Tendons at Core Wall

301 Mission Project

Dear Mr. Tom:

As part of my independent peer review of the structural design of the 301 Mission project, I have investigated the performance of the detail proposed for termination of floor slab post-tensioning tendons that are interrupted by the building's central shear core. The proposed detail consists of terminating the tendons, with a tendon anchor, in the slab a short distance from the exterior face of the wall. The slab is then connected to the core wall using "form saver" dowel inserts within the wall to which dowels are attached, following removal of the wall forms.

In an unrelated project, I have worked with engineers at MKA to test a full-scale laboratory specimen having details closely resembling the subject details of the 301 Mission project. You previously have received a draft test report summarizing test details and the results. Of the two test specimens reported, the second incorporated improved details including use of equal amounts of dowel reinforcement in the top and bottom of the slab and placement of the tendon anchors approximately one slab depth from the face of the wall. It is my opinion that this test specimen performed well within the expectations of the building code.

The details of the aforementioned second test are representative of those proposed for use in the 301 Mission building. In my opinion, results of this test are applicable to the 301 Mission building. Therefore, based on the testing performed, and my understanding of the response of the 301 Mission building, I believe that termination of post tensioning tendons outside the core wall using form-saver type dowel bar inserts to provide gravity and shear attachment of the slab to the wall, as shown on the structural drawings for the 301 Mission building, is acceptable.

Please feel to contact me should you have any questions on this matter.

Mochle

Respectfully,

Jack P. Moehle, Ph.D., PE

CC:

Gary Ho Nic Rodriguez Derek Roorda Steve Patterson Hardip Pannu



GAVIN NEWSOM, MAYOR FRANK Y. CHIU, C.B.O., DIRECTOR

160975

JPM 10

SUBJUTTED BY THON MUEHLE

July 27, 2004

80 Natoma Street

Jack P. Moehle 3444 Echo Springs Road Lafayette, CA 94549

Leonard Joseph The Thornton-Tomasetti Group 15892 South Pasadena Avenue Tustin, CA 92780-5415

Shah Vahdani Fugro West, Inc. 1000 Broadway, Suite 200 Oakland, CA 94662

Dear Gentlemen:

I wanted to let you know that we have retained Professor Juan Pestana of the UC Berkeley Geo Engineering faculty to do the type of evaluations that Professor Andrew Whittle was doing with respect to the 80 Natoma project. I am enclosing a copy of my letter to Professor Pestana that lists the items that I have sent to him. I would appreciated it if you would each review your files and see if you have any additional items that might be relevant to his work on this project.

I would also like to schedule a meeting with our DBI staff, the PRP members and Professor Pestana. I have cancelled the vacation I had planned, so I will be here until the end of September. I would appreciate hearing from each of you as to your schedules, so that we can set up a meeting at the earliest convenient date. You can call me at (415) 575-6893 or e-mail me at: ken.harrington@sfgov.org.

I look forward to hearing from you.

Very truly yours,

Kenneth U/Harrington
Office of the Director

cc:

Juan Pestana



July 26, 2004

80 Natoma Street

Professor Juan Pestana 104 Marsha Place Lafayette, CA 94549

Dear Professor Pestana:

This is a follow-up to our recent conversation, wherein I told you that the Department of Building Inspection wants to retain you as a consultant on a development project at the above address.

You will recall, I informed you that the subject project is a 51-story concrete residential high rise that is planned for construction at 80 Natoma Street, which is near the intersection of 2nd and Mission Streets in downtown San Francisco.

I am enclosing the following items, which will give you an overview of the project and the issues involved:

- 1. Report of Treadwell & Rollo dated October 24, 2003 with attached report dated September 15, 1998.
- 2. Report from Jack P. Moehle dated April 2, 2004.
- 3. Report from T.D. O'Rourke dated May 9, 2004.
- 4. Report from Youssef Hashash, Ph.D, P.E. dated May 12, 2004.
- 5. Report from Dennis C. McCarry dated May 14, 2004.
- 6. Report from Jonathan D. Bray, Ph.D., P.E. dated May 25, 2004.
- 7. Report from T.D. O'Rourke dated May 31, 2004.
- 8. Report from Youssef Hashash, Ph.D, P.E. dated June 2, 2004.
- 9. Report from Charles C. Ladd, Sc.D., P.E. dated June 2, 2004.
- 10. Report from Ron Klemenic, MKA; Mr. Hadi Yap, Treadwell & Rollo dated June 3, 2004.
- 11. Report from Andrew J. Whittle dated June 11, 2004.
- 12. Report from Demetrious C. Koutsoftas, P.E., G.E. dated June 14, 2004.
- 13. Report from Hadi J. Yap dated June 15, 2004.
- 14. Report from Hadi J. Yap dated June 17, 2004.
- 15. Report from Shah Vahdani dated June 24, 2004.

Our department, the Department of Building Inspection, had issued an addendum to begin the installation of piles, that, in retrospect, was premature, due to a great many unresolved questions.

The developer was in the process of installing piles, when we became aware of some questions with regard to the foundation. A number of experts who were retained to assess the construction of a train tunnel adjacent to the building foundation raised these questions. The

Professor Juan Pestana July 26, 2004 Page 2

project has been on hold since June 7, 2004 for some permit/entitlement questions, and due to our concern about the foundation as currently designed.

The Department's purpose in retaining you is to have you work with out peer review panel¹ to do the kind of assessment that Andrew Whittle did with respect to the design.

As you can see, there are conflicts among the various experts who have looked at the project. It is the Department's usual practice to hire its own independent consultants where there are such conflicts.

I would appreciate if you would review the enclosed materials and then call me so that we can discuss how we should proceed. I would like to set up a meeting with our peer review panel at your earliest convenience.

I know that I told you that I was going to be in Italy for the next 3 weeks, but I have decided to postpone my vacation because of this 80 Natoma matter, so you can reach me at the office whenever you would like to discuss the matter.

Thank you for agreeing to assist us in this matter.

Very truly yours,

Kenneth J. Harrington Office of the Director

¹ Jack Moehle, Leonard Joseph and Shah Vahdani.

City and County of San Francisco Department of Building Inspection



RECEIVED VIA BUALL
160976 01/27/2017

Edwin M. Lee, Mayor Tom C. Hui, S.E., C.B.O., Director

December 16, 2016

Mr. Denis F. Shanagher
Duane Morris LLP
Spear Tower, One Market Plaza, Suite 2200
San Francisco, CA 94105-1127
Via E-mail: dfshanagher@duanemorris.com

Dear Denis:

We understand that you have completed survey activities to determine whether 301 Mission is leaning/tilting and, if so, by how much.

We also understand that the survey activities may not yet be completed. Please send us a status report by December 22, 2016 on the status of such activities, and your schedule for completion of the work.

Also, please send us data measured thus far, as well as a complete report when the survey activities are complete. If you also could provide a timeline for providing the complete report, that would be much appreciated.

Many thanks for your assistance, and for your ongoing cooperation.

Sincerely,

Tom Hui, S.E., C.B.O. and Director

RonTom

cc: Naomi Kelly, City Administrator

City and County of San Francisco Department of Building Inspection



Edwin M. Lee, Mayor Tom C. Hui, S.E., C.B.O., Director

December 15, 2016

The Honorable Aaron Peskin, San Francisco Supervisor City Hall, Room 244, San Francisco, CA 94102-4689 Via E-mail: aaron.peskin@sfgov.org

Dear Supervisor Peskin:

Please see below DBI responses to the questions you raised in your letter dated November 16, 2016.

- Q. 1 Please produce or explain the absence of the August 30, 2005 letter from Hardip Pannu. A. We did not retain a hard copy version of the Hardip Pannu August 30, 2005 letter per DBI engineering practice at that time. Plan Review scanned only the final peer review letters into the plan set.
- Q. 2 Why is there "...no documentation that DBI formally retained the services of either Mr. Pannu or Professor Moehle specifically as peer review panelists..., or any documentation delineating their anticipated scope of work...."
- A. There is no documentation because DBI has never 'retained' a peer review expert. DBI engineering practice in 2005 was to select appropriately skilled experts jointly with the Project Sponsor; the contractual retainer has always been between the peer review expert and the project sponsor.
- Q. 3 Why is there no documentation delineating the peer review panelists' anticipated scope of work?
- A. As Principal Engineer Hanson Tom explained at the November 17th hearing, the practice in effect in 2005-2006 was to hold a meeting with the project sponsor's engineers of record, and with those engaged as peer review experts, from which a scope of work was determined, with detailed notes taken by the project sponsor's engineer of record. Per the records' retention policy in effect in 2005-2006, DBI did not retain any of these records.
- Q. 4 Why is there no letter confirming DBI engineer Hanson Tom directed or requested peer review panelists in 2005-2006 ... to include the Transbay Project in their review and analysis?

 A. According to DBI Principal Engineer Hanson Tom, 301 Mission pre-dated the Transbay Project by approximately five years and thus there was no Transbay Project yet to include in any of the 301 Mission peer review and analysis.
- Q. 5 Please explain whether Mr. Pannu and Professor Moehle were hired as peer review panelists before or after they did work for DeSimone Consulting Engineers.

 A. DBI did not 'hire' Mr. Pannu and Professor Moehle; that contractual relationship was between them and the project sponsor.

Page Two

Director Tom Hui December 15, 2016 letter to Supervisor Aaron Peskin

Q. 6 Why has DBI not provided you with its copy of "...the four-volume foundation permit application...dated May 24, 2005 and prepared by DeSimone Consulting Engineers for the Department of Building Inspection, referencing Project 4069....."

A. Per the City Attorney-approved departmental retention and destruction policy, DBI retains for its permanent records permit applications, permits, job cards, approved plans and certificates of final completion. We do not retain, per State law, project structural calculations, which we believe were the four-volumes you referenced.

I also would like to clarify Principal Engineer Hanson Tom's statement at the November 17th hearing that DBI's responsibilities "...pretty much stop at the property line...." Per building code section 3307.1, Protection of Adjoining Property, any excavation that adversely affects an adjacent property requires the responsible party to correct immediately any adverse impact caused by such an excavation, and to obtain required permits to perform the repair work. Please see the attached Code Section 3307.1 for specific details. In 2005-2006, the Transit Center area was still a vacant lot and thus this adjacency excavation responsibility was still several years away from actual construction conditions.

Finally, I would like to update you on some of our efforts since the last hearing. Our Inspection Division has completed inspections of 301 Mission's accessible areas. We are preparing a report to share in the near future. Our Commission has requested a presentation on performance-based applications for Tall Buildings and the peer review process at the February 17, 2017 BIC meeting. We also are researching other jurisdictions' performance-based plan checking and peer review process (please see enclosed December 6th letter from President McCarthy).

We are copying this DBI response letter to the Clerk of the Board, and Assistant Clerk Erica Major, and we request, respectfully, that it be made part of the official Board file number 160975.

Thank you for your consideration, and understanding, of these 2005-2006 DBI engineering and plan review practices.

Sincerely,

Tom Hui, S.E., C.B.O. and Director

Com C- this

Enclosures: SF Building Code Section 3307, Protection of Adjoining Property;
December 6, 2016 Letter to Director Hui from President McCarthy, BIC

CC: Members of Board of Supervisors; Members of Building Inspection Commission; City Administrator Naomi Kelly; DEM Director Anne Kronenberg; John Malamut; Randall Parent; Edward Sweeney; Taras Madison; Daniel Lowrey; Ronald Tom; Lily Madjus; William Strawn



BUILDING INSPECTION COMMISSION (BIC)

DEPARTMENT OF BUILDING INSPECTION

1660 Mission Street | San Francisco CA 94103 | Office (415) 558-6164 | Fax (415) 558-6509

December 6, 2016

Edwin M. Lee Mayor

COMMISSION

Angus McCarthy President

Debra Walker Vice-President

Kevin Clinch Gall Gilman John Konstin Frank Lee James Warshell

Sonya Harris Secretary

Tom C. Hui, S.E., C.B.O. Director

Director Tom C. Hui Department of Building Inspection 1660 Mission Street, 6th Floor San Francisco, CA 94103

Dear Director Hui,

After the events of the past few months, I will be calendaring a meeting in February to review the procedures and policies for performance based applications. Please be prepared to address the points outlined below in great detail. Please have the Department start preparing this report and presentation at your earliest convenience. The report and presentation should address each of the points below.

Process

- Which applications are performance based and which are prescriptive based?
- What is the criteria for each? Are the standards for performance and prescriptive the same?
- Provide historical data for the number of applications for each type for the last 10 years.
- Provide a description of a typical building for each type. (Survey and quantify each type.)
- Describe how or if an application could be both performance based and prescriptive based.
- Does the State of California's Code or any law speak to the retention of records for design professionals in the building profession?

Comparison showing Performance Based plan checking & Peer Review in the 2000-2007 era compared to the present day. How does our current system compare to San Diego, Los Angeles, San Jose and Seattle.

- What is the criteria to decide if something was performance based or Code prescribed?
- What is the criteria to qualify for the Peer Review team for the projects and who picked the teams?

- Who paid for the Peer Review and what was the process of payment?
- What is the design/seismic criteria? Do all buildings share the same standards?
- Were there any conflict of interest rules for the Peer Review team?
- What role did special inspections play? Which portions of the process or approval relies upon special inspection, and explain how Chapter 17 of the state Building Code gives priority to the special inspector. Explain how the state Building Code delegates jurisdiction for special inspections and soils reports by others.
- Were the piles part of the special inspection program or does the regular inspector cover pile driving?
- What was the record retention policy for Peer Review?
- How was dewatering reviewed or supervised, and describe the review process?

Sincerely,

Angus McCarthy

Building Inspection Commission President

Chutes, floors, stairways and other places affected shall be watered sufficiently to keep down the dust.

3306.11 Add a section as follows:

3306.11 Falling Debris. Wood or other construction materials shall not be allowed to fall in large pieces onto an upper floor. Bulky materials, such as beams and columns, shall be lowered and not allowed to fall.

3306.12 Add a section as follows:

3306.12 Structure stability. In buildings of wood frame construction, the supporting structure shall not be removed until the parts of the structure being supported have been removed.

In buildings with basements, the first floor construction shall not be removed until the basement walls are braced to prevent overturning, or an analysis acceptable to the Building Official is submitted which shows the walls to be stable without bracing.

SECTION 3307 – PROTECTION OF ADJOINING PROPERTY

3307.1 Insert a note at the end of this section as follows:

3307.1 Protection required. Adjoining public and private property shall be protected from damage during construction, remodeling and demolition work. Protection must be provided for footings, foundations, party walls, chimneys, skylights, and roofs. Provisions shall be made to control water runoff and erosion during construction or demolition activities. The person making or causing an excavation to be made shall provide written notice to the owners of adjoining buildings advising them that the excavation is to be made and that the adjoining buildings should be protected. Said notification shall be delivered not less than 10 days prior to the scheduled starting date of the excavation.

Note: Other requirements for protection of adjacent property of adjacent and depth to which protection is requested are defined by California Civil Code Section 832, and is reprinted herein for convenience.

Section 832. Each coterminous owner is entitled to the lateral and subjacent support which his land receives from the adjoining land, subject to the right of the owner of the adjoining land to make proper and usual excavations on

the same for purposes of construction or improvement, under the following conditions:

- 1. Any owner of land or his lessee intending to make or to permit an excavation shall give reasonable notice to the owner or owners of adjoining lands and of buildings or other structures, stating the depth to which such excavation is intended to be made, and when the excavating will begin.
- 2. In making any excavation, ordinary care and skill shall be used, and reasonable precautions taken to sustain the adjoining land as such, without regard to any building or other structure which may be thereon, and there shall be no liability for damage done to any such building or other structure by reason of the excavation, except as otherwise provided or allowed by law.
- 3. If at any time it appears that the excavation is to be of a greater depth than are the walls or foundations of any adjoining building or other structure, and is to be so close as to endanger the building or other structure in any way, then the owner of the building or other structure must be allowed at least 30 days, if he so desires, in which to take measures to protect the same from any damage, or in which to extend the foundations thereof, and he must be given for the same purposes reasonable license to enter on the land on which the excavation is to be or is being made.
- If the excavation is intended to be or is deeper than the standard depth of foundations, which depth is defined to be a depth of nine feet below the adjacent curb level, at the point where the joint property line intersects the curb and if on the land of the coterminous owner there is any building or other structure the wall or foundation of which goes to standard depth or deeper then the owner of the land on which the excavation is being made shall, if given the necessary license to enter on the adjoining land, protect the said adjoining land and any such building or other structure thereon without cost to the owner thereof, from any damage by reason of the excavation, and shall be liable to the owner of such property for any such damage, excepting only for minor settlement cracks in buildings or other structures.

City and County of San Francisco Department of Building Inspection



PROCESSOR WIN BURNL 1127 (2017

Edwin M. Lee, Mayor Tom C. Hui, S.E., C.B.O., Director

160975

Sean Jeffries Millennium Partners 735 Market Street, Suite 302 San Francisco, CA 94103

December 15, 2016

Dear Mr. Jeffries:

Thank you for providing us with a copy of the report that was prepared by Mr. Ronald Hamburger of Simpson Gumpetz and Heger Inc., dated October 16, 2016. We have reviewed the report and DBI's engineers seek some additional information.

In addition, we have provided copies of the information to a team of consulting engineers retained by the City Administrator. The consultants will be advising the City Administrator and DBI on the safety of your building at 301 Mission.

DBI's Request for Additional Information:

- We request you provide copies of the following documents referenced in the Hamburger report:
 - a. Documents prepared by Treadwell & Rollo listed as items 1 thru 15 in Sect. 2.1 of the report.
 - b. Documents prepared by Arup listed as items 1 thru 42 in Sect. 2.2 of the report.
 - c. Documents prepared by DeSimone Consulting Engineers listed as items 1 thru 12 in Sect. 2.3 of the report.
- 2) The conclusion of Mr. Hamburger's report did not provide a prediction on any future settlement related to geotechnical aspects of the site conditions. Please provide us with any information you have on this issue.
- 3) Do you have a plan to achieve building settlement stabilization and an associated timeline? Please provide us with pertinent information regarding your approach to addressing the settlement issue.

Questions from the City's Consulting Engineers:

Unless otherwise noted, the page and section references cited in these questions pertain to the final Foundation Settlement Investigation report, dated October 3, 2016.

City and County of San Francisco Department of Building Inspection



Edwin M. Lee, Mayor Tom C. Hui, S.E., C.B.O., Director

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Director Tom Hui December 15, 2016 Letter to Sean Jeffries

- 4) Please report the total weight (Dead Load and Superimposed Dead Load) of the building, including the below grade structure. Has an independent check of the building weight been performed to confirm the gravity loads used in the PERFORM and ETABS models?
- 5) Please report the periods of vibration from the elastic ETABS and nonlinear PERFORM models. Have these been compared to measured periods in the building, e.g., using acceleration data available from CSMIP?
- The study (Section 4.2.4.1 on page 28) has estimated roof displacements resulting from settlements of 2.7in toward the west and 7.0in toward the north based on the elastic ETABS model:
 - a. Please also report initial roof displacements from the nonlinear PERFORM model based on the two methods of applying settlements.
 - b. Please discuss how sensitive the predicated building responses are to the assumptions made in Section 4.3.3.1 and Section 5 regarding the portion of the measured total mat settlement that is applied in the analyses.
 - c. Please compare the initial out-of-plumb predictions from the analyses to the actual measured lean/tilt of the building so as to validate underlying assumptions.
- 7) The study has used an elastic ETABS model to identify the impact of the settlements on the building's stability under gravity loads. Several structural elements were identified that experienced high stress levels, some in excess of expected design strengths. Please discuss how the initial states of stresses and deformations under gravity loads and settlement deformations in the nonlinear PERFORM model compare to the stress levels predicted by the elastic ETABS model, and what the effect of any stress redistribution has on the structural collapse safety.
- 8) The study concludes that the settlements measured through June 2016 have not compromised the building's safety. Please comment on the extent of additional (future) settlements the building can sustain without compromising the building's stability under gravity loads, and the building's expected performance under earthquake loading.
- 9) There are differences between the observations and conclusions in the 2014 draft report and 2016 final report. For example, the draft report commented on the performance of the building under 'lower intensity earthquakes' in the Conclusions, but this statement was removed in the final version of the Conclusions. Please comment on these differences.

City and County of San Francisco Department of Building Inspection



Edwin M. Lee, Mayor Tom C. Hui, S.E., C.B.O., Director

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- 10) There is a lack of specificity in the discussion of the building's performance in Sections 6 and 7 of the final report:
 - a. Please clarify, in the first paragraph of Section 6, which building elements (including their number and location) experience significantly elevated stresses due to the settlements, the associated 'failure' mode, and what effect this has on the overall performance of the building.
 - b. Please quantify, in the fourth paragraph of Section 6, the effect of the building's settlements on the ability to resist earthquake shaking.
 - c. Please clarify, in the fifth and sixth paragraphs of Section 6, which building elements do not meet design criteria, or experience significantly increased demands, and what effect this has on the building's performance.
 - d. Please clarify, in Section 7, which building elements do not meet "criteria commonly adopted for design of similar new buildings", and how the (substandard?) performance of these elements affects the overall performance of the building.
 - e. Both the elastic ETABS model and the nonlinear PERFORM model show demands in the outrigger beams that exceed the standard acceptance criteria for these beams (e.g, the high elastic stresses in Figure 28 and large inelastic deformations in Fig. 60), Please describe the implications of these high stress and deformation demands on the performance of the outrigger beams as related to the safety of the building. [Note Figure 28 of the ETABS model report shows the largest outrigger shears in the south plane of outriggers, whereas the mat dishing is largest below the north plane of outriggers. Please confirm if the plots in Figure 28 are labeled correctly and, if so, describe why the forces are lower away from the dished area of the slab.]
- 11) The nonlinear PERFORM model has distributed spring supports beneath the grillage model of the mat, which represent the stiffness and settlement of the piles. Please report the following information on the pile loads and performance:
 - a. Gravity and earthquake forces developed in the pile supports. Please indicate the peak compression forces and tension forces (if any) developed in the pile supports and the locations of these forces. Report forces for both gravity loading alone and gravity plus earthquake loading.
 - b. Please comment on whether you have considered axial force, shear force and moment demand/capacity ratios in the piles due the effects of gravity and gravity plus earthquake.



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- c. Please plot axial force versus axial deformation for several representative support points to confirm the gap opening/closing behavior under gravity load and the range of deformations under the input earthquake ground motions.
- d. Please confirm the acceptance limit for deformations in the mat and whether this limit is exceeded in the analysis. Table 8 indicates that the CP limit is 1% plastic rotation, whereas the text on page 74 refers to the "1% strength loss limit", which implies a rotation at a strength loss of 1%. Please confirm the definition of acceptance criteria. In addition, in Table 8, demand/capacity ratios of up to 2.627 are reported for the mat foundation, whereas the discussion on page 74 related to Figure 64 indicates that "The demands shown here ... are entirely within acceptable levels". Please provide justification for considering the demand/capacity ratios of 2.627 to be within acceptable levels.
- MCER Spectra for Ground Motion Scaling: In Section 4.3.3.2 (Pg. 51-52), the input ground motions are scaled to a target spectrum equal to 80% of the standard MCER code spectra, based on the justification that "The Treadwell & Rollo geotechnical report indicates that at long periods, the site-specific spectrum developed for the design of the tower is governed by a building code requirement that site spectra not be taken less than 80% of the standard spectrum defined by the building code." However, as shown in Figure D-4 of Treadwell & Rollo's 2005 report (included below), the probabilistic site-specific spectra developed by Treadwell and Rollo is higher (not lower) than the standard code spectra for all periods longer than about 0.8 seconds. Therefore, this plot in Figure D-4 appears to contradict the justification in the 2016 analysis report for targeting a spectrum that is 20% less than the MCER spectrum. Please confirm.

Thank you for your earliest response to these questions.

Sincerely,

Tom C- Kin.
Tom Hui, S.E., C.B.O., and Director

Department of Building Inspection

cc: Naomi Kelly

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FUNDAMENTALE OF PROPERTY.

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E-MAIL: dGhanagher@duanemon's com

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FECENDO VIDE EN ALL

ATLANTA LUUR ATRAKTIA

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SELLANKA

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November 22, 2016

VIA EMAIL & HAND DELIVERY

Mr. Tom Hui Director, Department of Building Inspection City and County of San Francisco 1660 Mission Street, 6th Floor San Francisco, CA. 94103

Re:

301 Mission Street Notice No. 201632051

Dear Mr. Hui:

As discussed, this firm represents the Millennium Tower Association (the "Association"), which is in receipt of the above-referenced Notice dated August 26, 2016. Due to the nature of the request, the Association has previously requested an extension of time to respond to the information requests in the Notice. We now provide a response herewith.

The Notice appeared to request an engineering report regarding structural and building life-safety systems. We understand you are in receipt of a copy of the Simpson Gumpertz & Heger "Structural Evaluation of 301 Mission" Report, dated October 3, 2016, which concludes that the total and differential settlements experienced to date have not impaired the Tower's ability to resist dead, live and earthquake-related loading and have not had a significant impact on the building's safety. We have not included a copy of that report with this submission.

The Association has commissioned a Property Survey Assessment by Russell Hoeltzel, Senior Risk Consultant of Hub International, who has analyzed the building's existing risk reduction programs, fire protection systems and major equipment. In a report dated October 26, 2016, the Assessment Summary concluded that building conditions were found to be very good for property-related perils. A copy of the Assessment is attached as Exhibit A. Any and all recommendations therein are being implemented.

DUANE MORRIS LLA

Mr. Tom Hui November 22, 2016 Page 2

The Association has retained the forensic engineering firm of Allana Buick & Bers ("ABB") to, among other things, conduct a field investigation and analysis of the utility pipe connections in the building. A progress report from ABB of November 15, 2016 advises that no stresses on utility pipes have been observed to date. There is documentation that certain of the utility pipes were installed with flexible connections in anticipation of building settlement. We are currently working to confirm that all of those flexible connections were installed under the sidewalk and street, and the Association intends to excavate at various locations outside the building for absolute confirmation, and to improve those connections if and as necessary. A copy of the ABB progress report in that regard is attached as Exhibit B.

A test for potential leaks from natural gas lines inside or outside the building was conducted on October 20, 2016. No gas leaks were detected. A copy of the report in that regard is attached as Exhibit C.

There are three natural gas mains that enter the facility at Level 1 on Beal Street, each with seismic shutoff valve. Additional seismic bracing was recommended for the natural gas main piping that supplies the high-rise Millennium Tower. This seismic upgrade project was completed in December of 2015 pursuant to the plans attached as Exhibit D.

The Association has a regular building systems inspection protocol with regard to fire protection systems, emergency generators, elevators, water systems and roofs, among other things. Attached as Exhibit E is a spreadsheet that provides details on the type and frequency of testing, the responsible vendor where relevant, and the dates thereof. Please advise if DBI desires more detail on any of the testing.

An example of back-up data for testing are summary reports of the Annual and Semi-Annual Automatic Fire Alarm System Inspections and Certifications that occurred on February 22, 2016 and September 6, 2016, respectively, copies of which are attached as Exhibit F and Exhibit G.

As noted above, at the direction of the Association, ABB plans to excavate at five locations around the building to inspect approximately 10 utility line connections; including but not limited to storm and sanitary drain, fire, domestic water and natural gas, and make any corrections or repairs as necessary at the time. ABB's scope of work proposal in that regard is attached as Exhibit H, which identifies the various locations on Fremont (1), Mission (3) and Fremont (1) Streets, ABB is currently soliciting bids for that work and it is expected that plans and permit submittals to will follow in December, with the expectation of work in January.

DBI has issued a number of Notices of Violation with respect to the garage (lack of permits for repair), ramps (handicap slope) and sidewalks. We understand that Millennium Partners has or is in the process of obtaining the necessary permits for the garage repair work, which is related to an ongoing water intrusion issue arising from faulty below-grade waterproofing. We also understand that Millennium Partners is in the process of preparing plans to address the ramp slope issues for the review and approval of the Association and DBI.

Mr. Tom Hui November 22, 2016 Page 3

As for the sidewalk repair, given the anticipated excavation work to be undertaken with regard to the utility connections, the Association suggests that that repair be addressed as part of the utility excavation and inspection project discussed above.

Thank you for your consideration in this regard. Please address any questions to the Association regarding building safety systems through this office. We will continue to provide you with information as requested and as it becomes available.

Very truly yours

Denis F. Shanagher

Exhibits

EXHIBIT

A

EXHIBIT A



PROPERTY MARKETING REPORT

Prepared for:

Millennium Tower Association San Francisco, The Residences at Millennium Tower A

301 Mission Street San Francisco, CA 94105

October 26, 2016

Prepared by:

Russell Hoeltzel, PE, Sertior Risk Consultant Hub Risk Services 4695 ManArthur Ct. Newport Beach, CA 92660

russell hoeltzel@hubinternational.com

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Scope

The purpose of this Property Marketing Report is to describe the construction, occupancy, protection and exposures to these facilities. In addition human element programs are described as well as maintenance and testing of fire protection equipment. Major building equipment, HVAC and electrical equipment are addressed. The information provided is based on information provided by the client and from observations during site visits.

It is understood that each facility has its own specific conditions that characterize its design and operating procedures. Generally, national and industry recognized standards are the basis for the evaluation and suggestions. This is not to preclude a consultant's qualified judgment when evaluating the adequacy of existing programs.

Conferred With

Denis F. Shanagher Attorney at Law, Duane Morris LLP

Damon Partridge Director of Hospitality Services, Action Property Management, Inc.,

ACMF

Antonio Nunez Chief Engineer

Dorothy McCorkindale Hub International Insurance Services

Legal Notice

All consulting services performed by HUB are advisory in nature. All resultant reports are based upon conditions and practices observed by HUB and information supplied by the client. Any such reports may not identify or contemplate all unsafe conditions and practices; others may exist. HUB does not imply, guarantee or warrant the safety of any of the client's properties or operations or that the client or any such properties or operations are in compliance with all federal, state or local laws, codes, statutes, ordinances, standards or recommendations. All decisions in connection with the implementation, if any, of any of HUB's advice or recommendations shall be the sole responsibility of, and made by, the client. The advice and recommendations submitted in this plan constitute neither a warranty of future results nor an assurance against risk. This material represents the best judgment of HUB and is based on information obtained from both open and closed sources.

Executive Summary

A Property Survey Assessment was performed for Millennium Tower Association located in San Francisco, CA on October 26, 2016.

A tour of the premises was conducted along with a review of special hazards present, protective systems, building construction details, management loss control programs and other related aspects of the building.

This report discusses issues with settling and tilting that have been prominently highlighted in the media. This report documents studies, mitigation and discussion of the solution the issues.

A report, from a respected structural engineering firm, was commissioned on behalf of management to determine what effects the settling and tilting may have had on the safety and earthquake resistance of the building. The conclusion, based on extensive analysis of data from instrumentation installed in the building and visual observations are as follows:

"On the basis of our updated analyses of the 301 Mission tower, we conclude that the effect of settlement on most building elements is negligible. Under the influence of Maximum Considered Earthquake shaking together with the settlements that have occurred to date, most building elements continue to meet criteria commonly adopted for design of similar new buildings in the City of San Francisco today. We conclude that the settlements experienced by the 301 Mission tower have not compromised the building's ability to resist strong earthquakes and have not had a significant impact on the building's safety."

Risk Reduction Programs – Overall rated *Excellent*. Written programs are provided for Hot Work, Impairments and there is an excellent emergency plan in place.

Fire Protection — Overall rated *Good*. Fire sprinkler protection is provided throughout all areas.

Major Equipment – Overall rated Good. Equipment is well maintained and protected.

Assessment Summary

Overall, conditions were found to be Very *Good* for property-related perils.

Recommendations

No recommendations are being made by Hub. Previous recommendations made by AFM are discussed below.

09-02-002 Improve the fire sprinkler supervision and testing program.

Part A. Lock all sprinkler valves in the open position.

Hub comment: The valves are provided with tamper switches which are monitored 24/7. The valves are located in the stairwells where only residents have access. All valves are checked monthly with results recorded. Management will consider sealing the valves.

- Part B. Perform weekly documented inspections of the automatic fire sprinkler control valves. **Hub Comment:** This is currently done monthly.
- Part D. Conduct quarterly documented waterflow alarm testing. **Hub Comment:** This is currently done semiannually, which is the frequency recommended by NFPA 25.

Part E. Conduct documented flow tests for all pressure-reducing valves (PRVS)

There are two types of pressure-reducing valves at the Millennium Tower: direct-acting PRVs (direct PRVs), and pilot-operated PRVs (pilot PRVs). Direct PRVs are located in the stairwells, and pilot PRVs are located in the fire pump configurations. The following tests should be performed in order to ensure the pressure-reducing valves are functioning properly:

- All PRVs should be visually examined weekly.
- All floor PRVs should be physically inspected and operationally tested on a monthly basis.
- All PRVs should be flow tested annually and compared with the manufacturer's performance curves to ensure that they are operating in a satisfactory manner.

Hub Comment: All PRV'S are examined monthly.

All PRVs are flow tested on a 5-year basis. There are approximately 240 PRVs in the Tower. The five year test is the frequency required by NFPA 25.

Part F. Perform all waterflow tests with the fire pumps running.

Hub Comment: Due to the complexity of the high rise system this is not considered practical

09-02-008 Implement the FM Global Hot Work Permit System to manage hot work operations. **Hub Comment:** This has been completed

13-04-002 Ensure that all penetrations within electrical rooms are properly sealed with FM approved fire stop.

Hub Comment: This will be completed.

13-04-003 Create a comprehensive emergency plan (ERP) for this location.

Part A. Improve the ERP to include property loss prevention roles.

Part B. Develop a site-specific earthquake ERP.

Hub Comment: Parts A&B have been completed.

09-02-006 Improve Seismic bracing for the automatic fire sprinkler system.

Hub Comment: Management is reviewing this recommendation. Seismic bracing on gas piping was recently completed.

General Information

Description & Occupancy

The Millennium Tower is a fifty-eight-story, 605 ft. tall (645 ft. overall), reinforced concrete tower and adjacent podium. The Podium structure is further divided into a three-story low-rise and a twelve-story mid-rise.

Podium Features

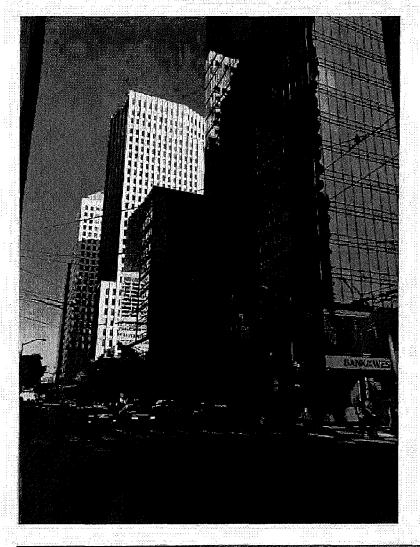
- 21,500 sq. ft. of exclusive common area facilities
- Indoor 75 ft. competition lap pool & expansive outdoor terrace
- Wine tasting room & cellar
- Bar and lounge
- 5,500 sq. ft. Sports Club/LA fitness center
- · Children's play & crafts room
- Michael Mina's RN74 Restaurant at ground floor level.

The US\$350 million project was developed by Millennium Partners of New York City, designed by Handel Architects, engineered by DeSimone Consulting Engineers and constructed by Webcor Builders. At 645 ft., it is the tallest concrete structure in San Francisco, the fourth tallest building in San Francisco overall. The tower is slender, with each floor containing 14,000 sq. ft. of floor space. In addition to the 58-story tower, there is a 130 ft. tall, 11-story tower on the northeast end of the complex. Between the two towers is a 43 ft. high, two-story glass atrium. In total, the project has 419 units.

The residences are said to be the priciest on the West Coast, with penthouse units on the top two floors selling for around US\$12 million. The bottom 25 floors of the main tower are called Residences while the floors from 26 to the top have the name Grand Residences. The 53 units in the separate 12-story tower are called the City Residences. Below street level, there are 339 parking spaces in a five-level subterranean garage located under the Podium. The building is located next to the site of the future Transbay Transit Center. Overall, the tower's design is intended to resemble a translucent crystal, and is a landmark for the Transbay Redevelopment and the southern skyline of San Francisco.

Millennium Tower is also home to RN74, a restaurant and wine bar under the direction of Chef Michael Mina, located on the ground floor. Resident services include a private concierge and exclusive access to the 20,000-square-foot. Club Level, featuring an owners' lounge, tasting room and cellar, private dining room (serviced by Chef Michael Mina's RN74), screening room, children's playroom, outdoor terrace, and a 5,500-square-foot fitness center,

Location	Occupancy
Tower	Residences 3-25, Grand Residences 26 - Penthouse
Tower	1 st floor lobby/residence lounge, Bank of the West
Tower	Basement - Building Offices, maintenance shop, mechanical rooms
Podium	12 story mid-rise, Club level (Gym-meeting private dining rooms) RN74 Restaurant



Buildings and Structures

The Millennium Tower is a fifty-eight-story, reinforced concrete structure developed by Mission Street. Development LLC in 2007 for sale as residential condominium units. The building is located at the southeast corner of Mission Street and Fremont Street. The building comprises two separate structures, a fifty-eight-story tower and an adjacent, functionally connected, twelve-story reinforced concrete podium. The Podium structure is further divided into a three-story low-rise and a twelve-story mid-rise. A seismic joint separates the Tower and Podium.

The fower is constructed of flat post-tensioned concrete slabs supported by perimeter reinforced concrete frames (beams and columns) and a centrally located tube comprising reinforced concrete load-bearing walls. It is supported on a single, continuous 10 ft. thick pile cap over 658 14 in. square pre-cast concrete piles. The piles are driven into the Bay Mud and Colma formation 50 to 90 feet below grade. The basement contains a PG&E vault supported on a 3 ft. thick slab cantilevered off of the pile cap. The Tower's lateral (wind and earthquake) resistance is a dual system consisting of concrete special moment frames around the perimeter and a concrete shear wall core with outriggers. The base dimensions are 178 ft. by 100 ft. or 17,800 sq. ft. per floor.

The Podium contains five sub-grade levels supported on a soil-supported mat foundation. Hinge slabs are used to connect the Tower and Podium in certain locations and allow differential movement between the two structures. Tie down anchors located under the low-rise portion of the Podium are used to resist hydraulic uplift pressure. The lateral system for the mid-rise consists solely of concrete shear walls. The base dimensions 170 ft. by 178 or 29,750 sq. ft. per floor for the parking areas and club level. The mid-rise tower is 80 ft. by 178 ft. or 14,240 sq. ft. per floor.

Curbs are provided in mechanical rooms where water piping is present. Most curbs are 6-inch high concrete with one metal curb observed around the metal dryer ducts on the 26th floor.



Metal Curb around Dryer Ducting

Settlement

A building normally settles during and after construction due to a number of factors including the weight of the structure. In the case of the Millennium Tower the structure has settled 16 inches. There has been some differential settling and some tilting. The amout of settling has been documented, analyzed. A detailed study was conducted and deemed safe structurally as well as deemed within earthquake design parameters by a reputable structural engineering firm.

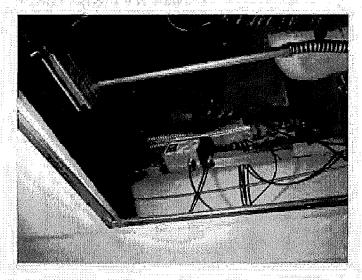
Mitigation

The settling was monitored during construction and measures were added by Architects and Consulting engineers to insure the integrity of piping and other systems. The included:

- Installing utility lines with flexible connections where they cross the seismic joint between the tower and mid-rise podium.
- Installing handralls at hinge slabs between the Podium and Tower to account for the increased slope due to settlement.
- Re-routing utilities. Re-routing utilities.
- Re-designing seismic joint covers at walls, ceilings, and floors.
- Raising interior floor levels or installing new trench drains to prevent water drainage towards entry and exit doors.

The building is monitored with inclinometers and piezometers. The information was initially real time monitoring and was recently restored to real time monitoring. Crack gauges are installed the basement for visual crack monitoring.

Piping is equipped with tiltmeters.



Proposed Mitigation

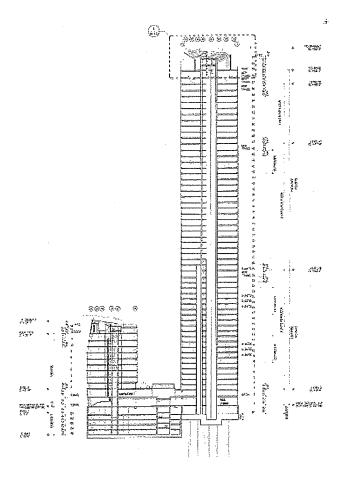
At this time there are discussions taking place to correct settlement and tilting.

A study is scheduled to begin shortly by Alona Buick & Bers to investigate the strain on piping connections to city/utility systems in the street.

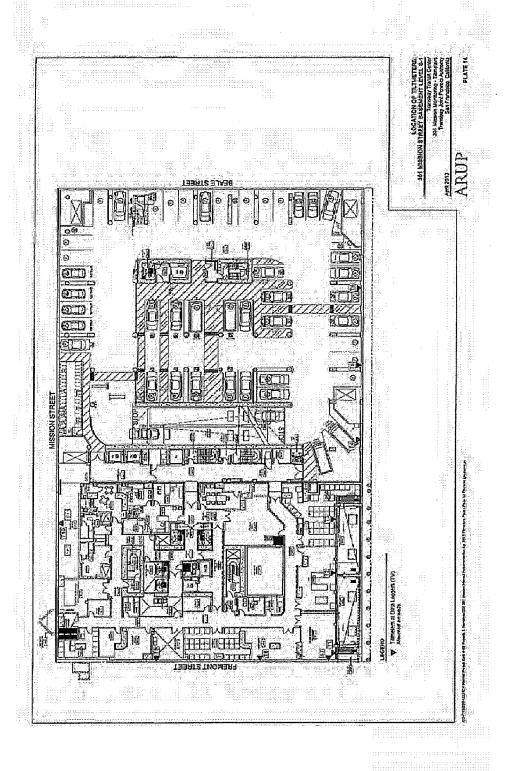
Additional Measures

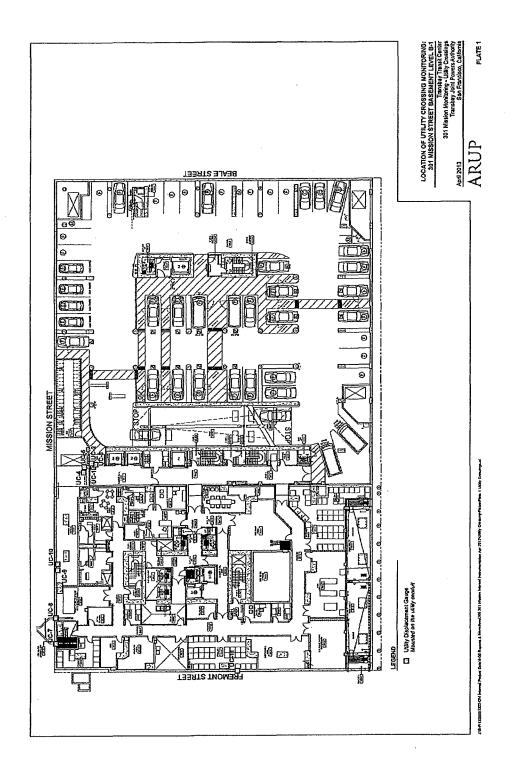
Three borings to bedrock were recently completed. The borings will monitor water level, and movement using piezometers and inclinometers. Monitoring will be real time. There are two borings in Mission Street and one in Fremont Street.

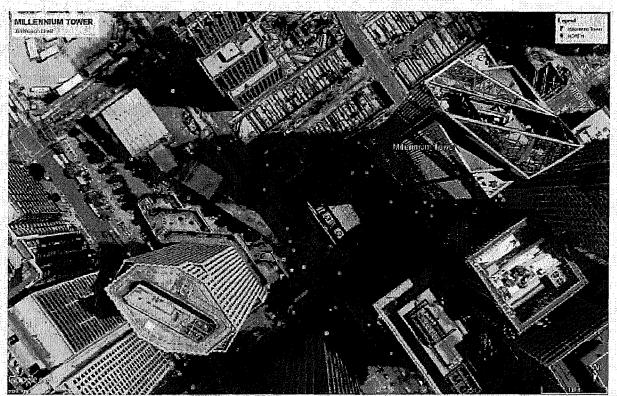
A laser sight was in the process of installation in a Tower elevator shaft for inclination monitoring. The laser will provide real time monitoring.



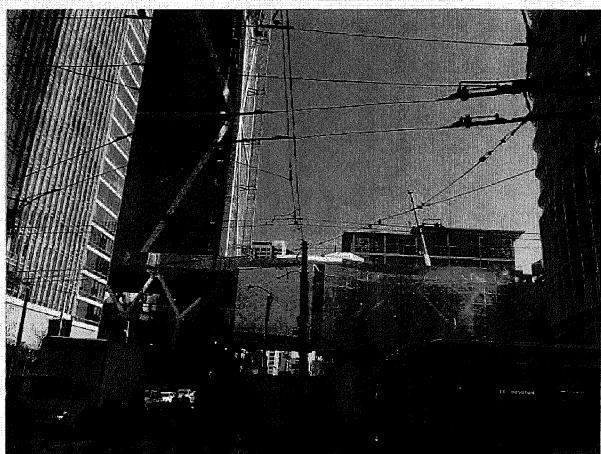
OVERALL SECTION LOCKING SOUTH (7)







Aerial of Millennium Complex. See below for new construction to East and South.



New Buildings to East and South. Light Rail Construction Immediately South

Exposures

The state of the state of	Latitude	Longitude
	37.790543 N	122.395922 W

Earthquake Hazard Gategory	Risk Rating				
Total Earthquake Risk	Ø				
Controlling Fault Name	N San Andreas				
Distance to Controlling Fault	9 iniles				
Soil Type	Soft Soil				
Liquefaction Susceptibility	165				
MIMI Value 100 yr.	9.25				
MMI Value 250 yr.	10,14				
MMI Value 500 yr.	10.77				
Peak Ground Acceleration 100 yr.	0.62				
Peak Ground Acceleration 250 yr.	<i>J.15</i>				
Peak Ground Acceleration 500 yr.	3 11 11 11 11 11 11 11 11 11 11 11 11 11				
PML – 500 Year	35%				
The Modified Mercalli Intensity	quake Risk Ratings Scale (MMI) is a qualitative ranking of				
The Modified Mercalli Intensity earthquake intensity as categorized L. Vibrations felt only by a few people	quake Risk Ratings Scale (MMI) is a qualitative ranking of into 12 ratings by the US Geological Survey under very special circumstances.				
The Modified Mercalli Intensity earthquake intensity as categorized I. Vibrations felt only by a few people II. Vibrations felt a few people on upperswinging of suspended objects. III. Vibrations felt generally by people in	quake Risk Ratings Scale (MMT) is a qualitative ranking of into 12 ratings by the US Geological Survey under very special circumstances. r floors of buildings and in position to observe the				
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The Modified Mercalli Intensity earthquake intensity as categorized I. Vibrations felt only by a few people II. Vibrations felt a few people on uppe swinging of suspended objects. III. Vibrations felt generally by people in to a passing vehicle. IV. Vibrations felt almost all people indesounds produced in structures. Son V. Vibrations felt by everyone. Some o overturned. VI. Vibrations and motion felt by everyor damage such as to plaster or wallbot VII. Some structures, such as brick chim as wood-frame buildings. VIII. Structural damage to even well-designations and motion felt by everyor considerable damage to structures, foundations. X. Even wood-frame structures destroyed XI. Almost all masonry structures destroy	Guake Risk Ratings Scale (MMI) is a qualitative ranking of into 12 ratings by the US Geological Survey under very special circumstances. If floors of buildings and in position to observe the udoors but may not be any more intense than those dubors and some outdoors. Some objects displaced, ne vehicles perceptibly rocked bjects rocked off of tables and shelves. Some objects one. Even heavy objects displaced. Some structural and, meys, damaged. Slight damage in other structures succeed structures. Frame structure walls pushed out of 1. Heavy objects overturned, even partial collapse. Some structures shifted off of				

into the air. Information obtained from RiskMeter

Flood

Information obtained from RiskMeter

Flood Risk Analysis					
Risk Score (Sliding Scale from 10-100)	73				
Risk Rating	High				
Flood Zone	No.				
Elevation Variance Feet	Na la				
Definition: A variance calculated in feet be Water Surface Elevation feet.	tween the Property Elevation Feet and				
Property Elevation Feet	12.8				
Definition: Ground elevation in feet of the pair component for deriving the Elevation Var					
Water Surface Elevation Feet	(N/A				
Definition: Serves as the proxy for the eleva for deriving the Elevation Variance Feet.	ation of the 100-year flood and is component				
Distance One Hundred Year Flood Plain Fe	et				
Definition; Distance in feet between the pro flood zone located in the same catchment or					
Notes					
Subwatershed Name	Angel Island- San Francisco Bay Estuaries				
Definition: Name of the subwatershed in wh	nich the property is located,				
Subwatershed Code	180500021001				
Definition: Hydrological Unit Code (HUC)	in which the property is located.				
Community Number	060298				
Community Name	SAN FRANCISCO, CITY OF				
Map Panel	001				
Map Stiffix	Ŋ				
Map Date	1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2				
Original FIRM Date					
Participation Status	R :				
State County FIPS Code	06075				
Additional Impact Areas	No additional impact areas found				

Wind Prob	ability
Hurricane Wind Probability Risk Description	Very Low
Hurricane Wind Probability Risk Level	
Hurricane Wind 100-Year Probability	
Straight Wind Probability Risk Description	Very Low -
Straight Wind Probability Risk Level	
Straight Wind 10-Year Probability	0=001
Tornado Wind Probability Risk Description	Very Low
Tornado Wind Probability Risk Level	
Tornado Wind 10-Year Probability	0.026
Is in Special Wind Area	Filse

External

North AS High rise building across Mission Street

South Underground station (partial AS)

East AS high rise across Beale Street plus 100 feet setback

West AS high rise across Fremont Street

Risk Reduction Programs

Housekeeping

Excellent with a few minor exceptions.

Hot Work Program

A written hot work permit system is in use. The permit requires a 30 minute fire watch after the completion of any hot work.

Emergency Organization & Pre-Planning

A written comprehensive emergency plan has been prepared for the buildings. The plan includes an emergency plan that is provided for each resident. There is also a plan that includes all emergencies for building management and engineering. The plan is reviewed and updated as necessary.

Organization	Response T	ype Distance	Comments
San Francisco Fire Department	Structural P	aid 0.60 miles	Excellent resources and training. Three Stations within 1.5 miles

There is a formal water mitigation program that includes a response program, pressure regulating valve inspections and every shift back of house inspection. Curbs are provided in mechanical rooms where water piping is present.

Fire Protection System Testing & Maintenance

System	Weekly	Monthly	Quarterly	Six Months	Annual
Extinguishers — Visual	de Terre, Managaria	X			r delegation
Extinguishers - Maintenance					X
Fire Pump — Inspection/Operation	\$	X			
Fire Pump – Capacity Test					X
Control Valves - Visual Inspection		X	b. Joseph State Company	Billian E. S	F. 1888 . 18 1 Politica di America \$185
Control Valves – Maint /Operation					
Valve Tamper Switches				X	
Sprinkler Waterflow Alarms				**************************************	

System	Weekly	Monthly	Quarterly	Six Months	Annual
Fire Alarms				X	
Wet Pipe Systems		X	tariat kuta utau utau di dibana di		X
Kitchen Wet Chemical Extinguishing Systems				\mathbf{X}	
Hose Stations		X			
Detection Systems and Notification Devices				X	
Fire Doors, Dampers and Penetrations					X

Fire Protection Impairment Handling

Impairments are reported to the insurance carrier and to the fire department.

Fire Protection

Water Supply & Distribution System

Water Supply Description

Water supply is from an 8-inch fire service connected to the city water main in Mission Street. The city supply is reduced to 30 psi at the pressure regulating valve (PRV) valve on the suction side of the low zone fire pumps. The low zone fire pumps supply low zone standpipes and sprinkler systems.

Low zone standpipes supplied from the low zone fire pumps supply the high zone fire pumps. The low zone fire pumps can also take suction from the fire water tank in the basement.

Pump	UL Listed	Driver	Rated Flow	Rated Pressure	Suction Source
01A	Yes	Electric	1 0 00	180	Basement Tank
01B	Ϋ́es	Electric	1000	180	Basement Tank
02A	Yes	Electric	750	255	26 TH Floor main from Bsmt fire pumps
02B	Yes	Electric	750	255	26TH Floor main from Bsint fire pumps

Distribution System Description

Testing Results

Driver	F	Ratin	9	Elow	Custian	Discharge	Press	RPM	Speed Correction		
	GPM	PSI	RPM	1 1000	Suction	Discharge	FIESS	LYL 1M	Flow	Pressure	
	0	199		0	. 3	201	198	3550	0	198	
LR01A	1000	180	3550	1000	3	180	177	3550	1000	177	
Electric	1500	144		1500	3	144	139	3550	1500	139	
	0	199		0	3	203	200	3550	0	200	
LR01B	1000	150	3550	1000	3	184	181	3550	1000	181	
Electric	1500	143		1500	3/	146	143	3550	1500	143	

Driver	F	Ratin	į.	Flow	Suction	Discharge	Press	RPM	Speed	Correction
	GPM	PSI	RPM	IIUW	GUGHUH	Discharge	11633	131 111	Flow	Pressure
	0	290		0	0	281	281	3550	0	281
HR02A Electric	750	255	3550	750	0	252	252	3550	750	252
Execute	1125	217		1125	0	207	207	3550	1125	207
en Breeg gand, navgrud Energia broken	0	285	Mariana Majorial (0	0	273	273	3550	0	273
HR02B Electric	750	255	3550	750	0	243	24	3550	1000	181
Diedilic	1500	143		1500	3	146	143	3550	1500	143

Fire Protection Systems & Equipment

Water Based Systems

Area	Design Density/Area	Demand (no hose)	Detection
Wet Pipe Sprinkler Systems			
Retail Areas	0.20/1549	569.9 @ 74.0	
Parking	0.15/1045	624.7 @ 43.A	
Parking	0.15/1540	441.5 @ 79.1	e Britishana Lista da Britishana Lista da Britishana
Parking	0.15/1565	486,3 @ 58.2	, Carron de la paracella de la companya de la compa
Residences	0.10/1540	123.1 @ 65.6	
Residences	0.10/1552	404.3 @ 77.6	Color
Residences	0,10/1519	476.7 @ 46.2	jili. Ugaz termunggan

Standpipe and Hose Stations

Standpipe hose outlets are provided in each stairwell on every floor.

Portable Extinguishing Equipment

An adequate number and proper type of portable fire extinguishers are distributed throughout. Residents are required to have extinguishers however there is no annual maintenance recorded or monthly checks

Fire Signaling System

All fire alarms are received at the security center which is occupied 24/7.

Fire Detection Systems

Smoke detection is provided in all areas with the exception of the gym. Residence smoke alarms are not connected to the security center.

Major Equipment

Transformers

Power is supplied by a PG&E owned transformer located in a concrete vault in the basement. Walls and ceiling are rated for 3-hours.

Power is distributed to the main panel, rated at 1200 amperes, in an adjacent room at 480 volt 3-phase power. The power is distributed to other electrical rooms in the Tower and the Podium. An emergency generator is rated at 1,000 KW located in a cut-off room in the Podium and supplies emergency power to selected areas of the buildings through automatic transfer switches.

The fire pumps have separate breakers and transfer switches.

All electrical rooms have fire sprinklers and smoke detection.

An IR survey was conducted on all major electrical panels. Problems found were corrected. The IR survey is currently done on a 5-year basis.

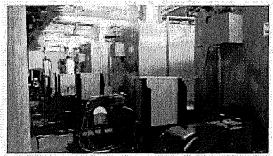
Natural Gas Supply

A 4-inch natural gas main enters the building on Beale Street. The main line splits into three lines with each line provided with a seismic gas shutoff valve. The pipe entering the Tower from the Podium structure side and is provided with welded stainless steel braided flex pieces to provide flexibility to allow for settling and earthquake induced motion. Seismic bracing was recently added to all gas piping to Factory Mutual requirements. Leak testing was recently conducted on main gas lines.

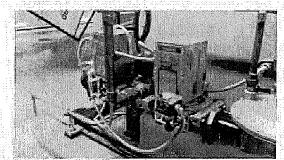
Boilers

There are three natural gas fired hot water boilers in the Tower. The boilers are rated at 2,400,000 btu/hr. input. All are equipped with safety shut-off valves and flame failure.

There are three natural gas fired hot water boilers provided for the common area and the twelve story midrise. These boilers are rated at 4,000,000 btu/hr each. All boilers are equipped with flame failure, double block and bleed safety shut-off valves and high and low gas pressure switches. In addition the boilers are provided with low water cut-off.



Podium Boilers



Double Safety Shut-off Valves with Vent Line Between

HVAC

Heating and cooling is provided by heat pumps in residential units.

Package units are provided for the common areas

Two cooling tower is provided on the roof of the Podium Tower. The towers are metal frame with PVC fill. Vibration monitoring is provided for the fans.

Loss History

No property related losses have been reported for this location.

EXHIBIT

B

EXHIBIT B



Allanu Buick & Bers, Inc. 990 Commercial Struct. Paid Allo; CA 94303 1 650.543.5606 1 650.943.5825

ALLANA BUICK & BERS

Continue Building Building Cont

November 15, 2016

John Gill Hughes Gill Cochrane 1600 South Main Street, Suite 215 Walnut Creek, California 94596

Denis F. Shanagher Duane Morris LLP Spear Tower One Market Plaza, Suite 2200 San Francisco, CA 94105-1127

Re: The Millennium Tower Site Utilities Connections Investigation Progress Report - DRAFT

John and Denis,

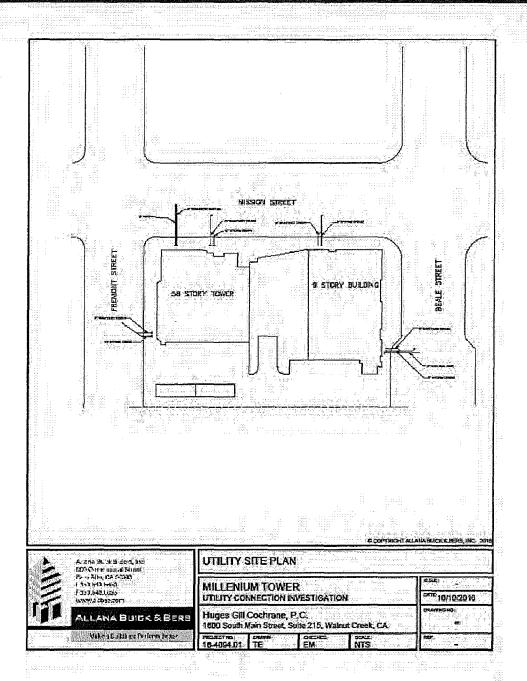
In accordance with your request, Allana Buick & Bers, Inc. (ABBAE) is in the process of conducting a field investigation and analysis of the site utility pipe connections at The Millennium Tower in San Francisco, CA. We are pleased to present Hughes Gill Cochrane (HGC) with a progress report of our investigation and preliminary findings.

Background

The Millennium Tower site consists of a 58 story multi residential hi-rise and a 9 story lo-rise building, built during 2008 and 2009. Reports of the building sinking 16 inches has caused concern for the status of the building utility connections and their ability to sustain the building's vertical movement of that magnitude relative to the surrounding site. The focus of the investigation will be to report on the existing conditions of the building utility connections and to provide analysis and repair recommendations based on our findings.

- The Millennium Tower site utilities include domestic water service, fire water service, sanitary drain laterals, storm drain laterals, electrical power supply and natural gas supply.
- The Fremont Street building side has set of 8" sanitary drain and a 10" storm drain connections.
- The Mission Street building side has an 8" fire water service connection, an 8" domestic water connection, one set of 10" sanitary drain and 10" storm drain connections and one set of 8" sanitary drain and 8" storm drain connections.
- The Beale Street building side has a set of 8" sanitary drain and 8" storm drain connections and a 3" natural gas supply connection.







Site Survey

An initial non-destructive site survey was conducted by ABBAE staff on October 3, 2016. The Millennium Tower utility pipes were observed, where each pipe enters the building perimeter at the first level of the parking garage (B1). With the exception of the natural gas supply pipe all the utility pipe penetrations through the basement wall are routed through concrete "cored" openings and sealed with Link-Seal sleeves. The condition of the visible pipe sections in the parking garage level appeared to be in good condition.

The natural gas supply pipe is routed through the perimeter basement wall and encased in concrete and then rises into the gas meter room (facing Beale Street). The gas pipe is therefore not visible until it enters the gas meter room floor. On October 17, 2016 a gas leak test was conducted on site which included these locations;

- Gas meter room at supply pipe floor penetration
- · Side walk control joints on Beale street side adjacent to gas meter room
- Natural gas street shutoff valve vault

No gas leaks were detected.

On October 27, 2016, ABBAE staff conducted a site observation of the piping routed through the expansion joint between the high rise and low rise towers at the B1 basement level. Hot water piping, chilled water piping, natural gas piping, domestic water piping that cross the expansion joint are equipped with "expansion loops" made up of flexible fittings and piping offsets. The observed piping joints appeared to be functioning properly. A 4" domestic water supply main, which is routed through the expansion joint, appears to be wedged between an adjacent chilled water line and the bottom of the floor slab. No damage was observed. We recommend further assessment of this site condition.

Construction Period RFI Review

ABBAE has reviewed the record Millennium Tower- Plumbing As-built drawings and the submitted construction period RFIs regarding plumbing issues:

The following is a brief summary of the submitted Webcor RFI's pertaining to the Millennium building utility line entries:

5,4.06 (RFI 222)

Handel Architects recommends the use of flexible connections at building utility line entries (the high rise only), despite Webcor's understanding from Geotech & Structural Engineers opinion that flex connections are not necessary because the building will settle together with the surrounding site.

5,18.06 (RFI 251 R1)

Flack & Kurtz Engineers describe methods of providing flexible connections for building utility line entries:

- Pressure piping (Fire / Domestic Water) (4) 90 degree ells using ductile iron piping and mechanical couplings
- Drain piping (Storm / Sanitary) (2) 1/8 bends using cast iron piping with heavy duty couplings



7.7.06 (RFI 354)

Flack & Kurtz Engineers provide details of flexible connection applied to the 8" fire service pipe (Mission St side of building):

- (2) flanged ball joints distanced 36" apart with connector pipe.
- Ball joints to be Hyspan Barco BB31533-68-11 Type N
- Sizing based on total building settlement of 6"

10.5.06 (RFI 354 R1)

4.13.07 (RFI 354 R1)

Flack & Kurtz Engineers provide design and specification revisions to flexible connection for the 8" fire service pipe (Mission St side of building):

- Add expansion joint fitting in the connector pipe between the (2) flanged ball joints.
- The expansion joint fitting is to be Hyspan 1501-167-2
- Change Ball joints to be Hyspan Barco BB31533-68-21 Type N
- Sizing based on total building settlement of 6"

7.31.07 (RFI 354 R2)

Flack & Kurtz Engineers confirm that the design and specification revisions to the flexible connection for the 8" fire service pipe (Mission St side of building) will accommodate the two building settlement scenarios: 1) building settles 6" alone 2) building settles 6" with surrounding site.

7.10.08 (RFI 2492)

7,24.08 (RFI 2492 R1)

Due to a 6" settlement of the building, causing back sloping of the storm and sanitary pipes on the Mission Street side. Flack & Kurtz has approved restoring the slope of the drain piping by raising the pipe penetrations through the B1 level foundation wall by 8".

7.25.08 (RFI 2525 R1)

Flack & Kurtz Engineers provides details of flexible connections to be applied to the storm and sanitary service pipes at entry to building:

- (2) flanged ball joints distanced 48" apart with connector pipe.
- Ball joints to be Hyspan Barco

8.4.08 (RFI 2525 R2)

Flack & Kurtz Engineers provides specification revisions to flexible connections applied to the storm and sanitary service pipes at entry to building:

Ball joints to be Starflex

7.24.08 (RFI 2564)

7.31.08 (RFI 2564 R1)

Due to a 6" settlement of the building, causing back sloping of the storm and sanitary pipes on the Fremont Street side, Flack & Kurtz has approved restoring the slope of the drain piping by raising the pipe penetrations through the B1 level foundation wall by 8".



Preliminary Findings

In review of the Webcor construction RFIs submitted above which pertain to building utility line entries it appears that the design team had addressed the future building settlement with the assumption of a maximum vertical movement of 6 inches. Flexible connections consisting of (2) or (3) pipe ball joints were proposed for the Fire Service main, the storm and sanitary sewers and possibly the domestic water main. It is not clear from these documents if in fact the flexible connection assemblies were installed.

A review of the Plumbing (Broadway Mechanical) and Civil (Telemon Engineering) As-built drawings did not result in finding any detailed reference to the flexible connection assemblies discussed or described in the RFIs.

To date, we have no confirmation as to the actual installation details of the building utility line connections at the perimeter of the building site. We therefore recommend subgrade investigation work to confirm the existing conditions at the utility pipe entries to the building. The purpose of the investigation, going forward, will include the following:

- Verify the existing utility pipe connection methods at each entry location to accommodate building settlement or movement.
- · Verify condition and integrity of the subgrade piping at each location.
- Analyze the excavation findings and recommend repair work.

Further Investigation

This next step in the investigation will entail exterior street side excavation at each building utility entry location. This investigation will include observations around storm and sanitary drains, fire, domestic water and natural gas lines. Excavations will need to extend at least 3 feet wider than the marked utility lines and approximately 10 feet away from the building. The entire circumference of the utility lines needs to be exposed in order to assess the condition of the pipes and the construction of any flexible connections to accommodate settlement.

This investigation needs to be coordinated with local building officials, utility companies, telecommunication companies, and trades people that are capable of performing emergency repairs as needed. This investigation should include electrical, plumbing, cabling, fire sprinkler, and sewer. The photo section in this report shows locations of pipe penetrations from the garage and street level.

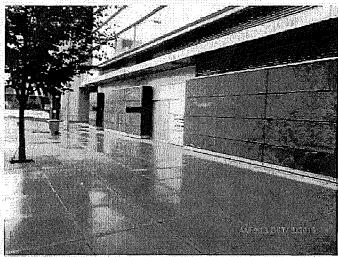
Sincerely,

Allana Buick & Bers, Inc.

Eli Margalit, P.E., LEED AP Forensic Mechanical Engineer



Photo Section

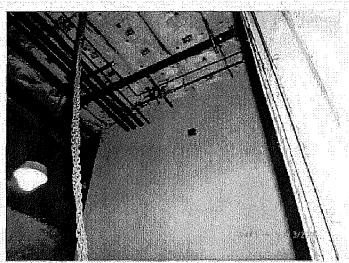


UP-1 Beale Street Elevation

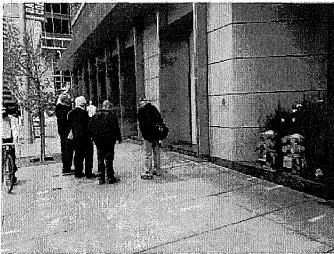


UP-1 Beale Street Elevation: Storm, Sanitary and Natural Gas



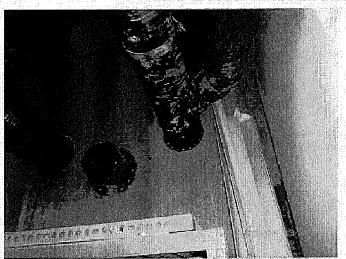


UP-1 Beale Street Elevation: Garage View



UP-2 Fremont Street: Storm, Sanitary Drains





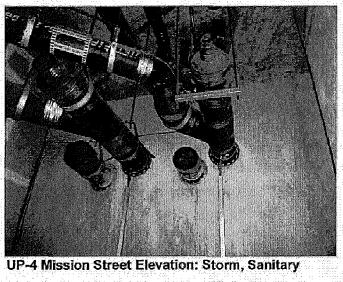
UP-2 Fremont Street Elevation: Garage View







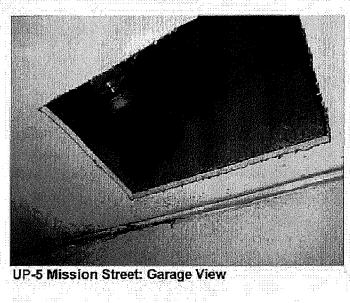
UP-3 Mission Street: Garage View







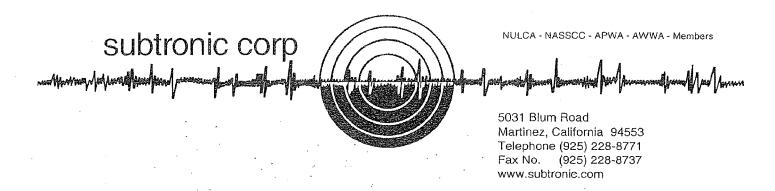
UP-5 Mission Street Elevation: Storm and Sanitary



EXHIBIT

C

EXHIBIT C



GAS LEAK INVESTIGATION REPORT

Date: 10/20/2016 Date of Inspection: 10/17/2016

Site address: Millennium Tower, 301 Mission Street, San Francisco, CA

Client: Allana, Buick and Bers

990 Commercial Street, Palo Alto CA 94303

Attn: Eli Margalit, 650 543-5605

Reason for Inspection: Check for natural gas leaks on service from gas valve on Beale St to utility room.

Investigations: On 10/17/2016 at 9 am, we arrived at the property on **301 Mission Street in San Francisco** and began an inspection of the area from the PG&E gas valve in the sidewalk to and into the utility room where the gas line comes up to feed the building.

A portable flame irrigation detector (DP4) was used to detect trace amounts of natural gas (down to 1 ppm) by placing its sensor into the gas valve sleeve for 30 seconds with no gas detected. This same 30 second interval was used to check the entire sidewalk area between the valve and the building's exterior as well as the interior of the utility room where the gas supply line comes up to feed the building.

Conclusions: No natural gas was detected outside the building in the vicinity of the service line or inside in the meter room where it rises.

Report Prepared By: Mark Sturdevant

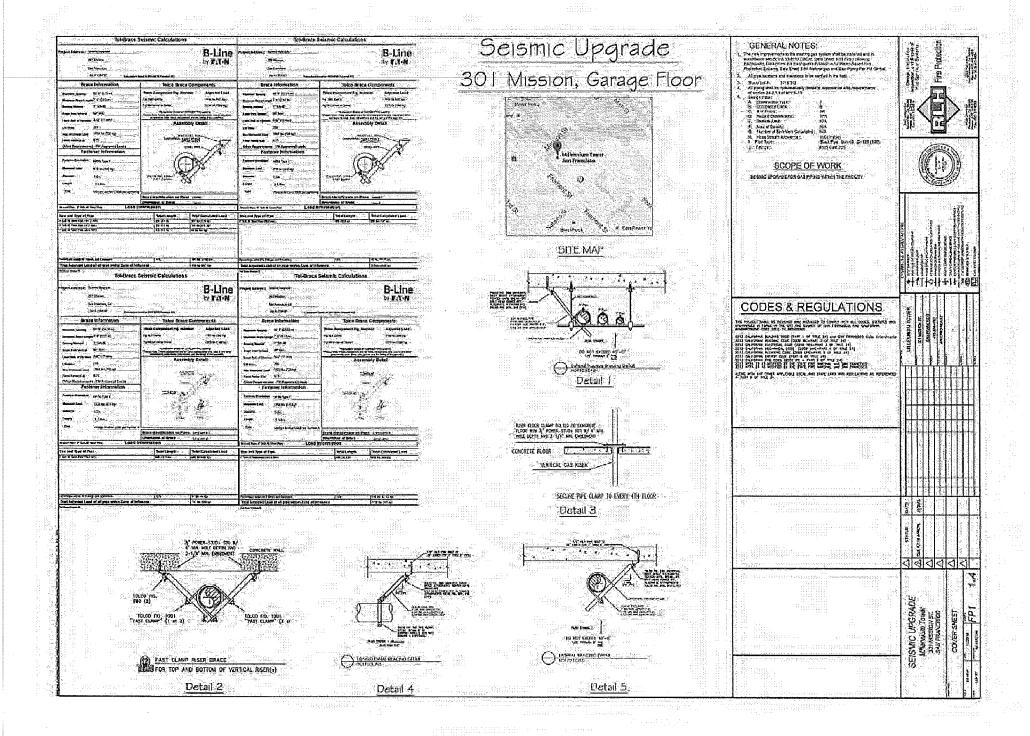
Report QA by: Jon Taylor

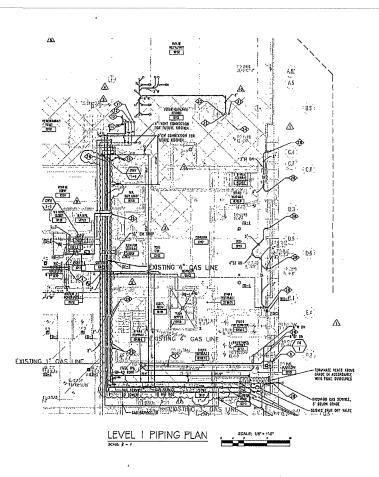
Utility Location & Mapping • TV Pipe Inspection & Cleaning • Water Leaks • Gas Leaks Geophysical Surveys • Rebar Imaging • Vacuum Dig Potholing • License #940232

EXHIBIT

D

EXHIBIT D





SUMMARY

- There are three natural gas mains that enter the building on Level 1 on Beale St. that are hanging from a Impeze. Additional salamic bracing is warranted for the natural gas main piping that supplies the high-rise Millennium Tower.

-On Level 1, for the 3" & 4" natural gas pipe, add lateral and longitudinal bracing within 2"0" of a change in direction. The existing 1" natural gas pipe does not need bracing per FM Global.

-On Level 1, for the 4" natural gas pipe, add fateral bracking there is an existing trapeze. Look to detail 1 on FP-1. Lateral bracking is not to exceed 40"-0" per seismic calculations.

-On Level 1, for the 4* & 3* natural gas pipe, add longitudinal bracing. Look to detail 4 on FP-1. Longitudinal bracing is not to exceed 80*-0*.

-On Level 1, for natural gas main riser, add four way bracing within 24 in. of the top and bottom of riser. Look to detail 2 on FP-1.

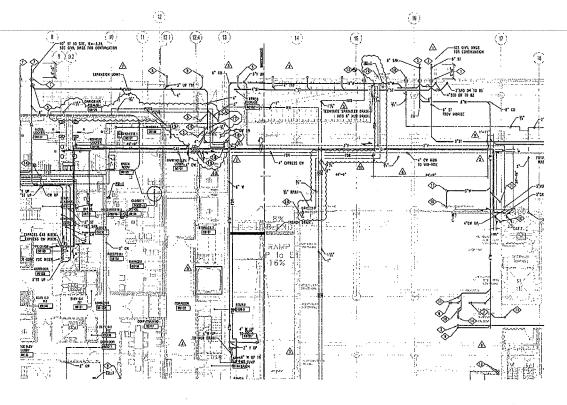


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	SYMBOLS & ABBREVIATIONS	В зъятьники	PLEXBLE CHOOKED COLFUND	- Geographics	1 00000	 O HITMAND CALCAL FOR HOOR POWER	NORTH DESCRIPTION	 + court transcourt stock	A SHAN EASTMENDED	TO NUMERAL PROVOCES ZANAY BLATHOLING BALCE	POST AND THE PROPERTY AND AND LEW CONTRACTS EDUCATION	CAST TABLES CONTINUED CONT	Girl anomenic water
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SEISMIC UPGRADE LEVEL 1 301 MISSION ST. SAN FRANCISCO

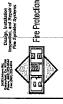


BASEMENT LEVEL PIPING PLAN



SUMMARY

- In the Basement level, for the 4" natural gas pipe, add lateral and longitudinal bracing within 2'-0" of a change in direction.
- -In the Basement Level, for the 4" natural gas pipe, add lateral bracing. Lateral bracing is not to exceed 40"-0" per seismic calculations. Look to detail 5 on FP-1.
- -in the Basement level, for the 4" natural gas pipe, add longitudinal bracing. Longitudinal bracing is not the exceed 80'-0" per seismic calculations. Look to Detail 4 on FP-1.
- -in the Basement Level, for the 4" natural gas main riser, add four way bracing within 24 in of the top and the bottom of the riser. Look to detail 2 on FP-1.

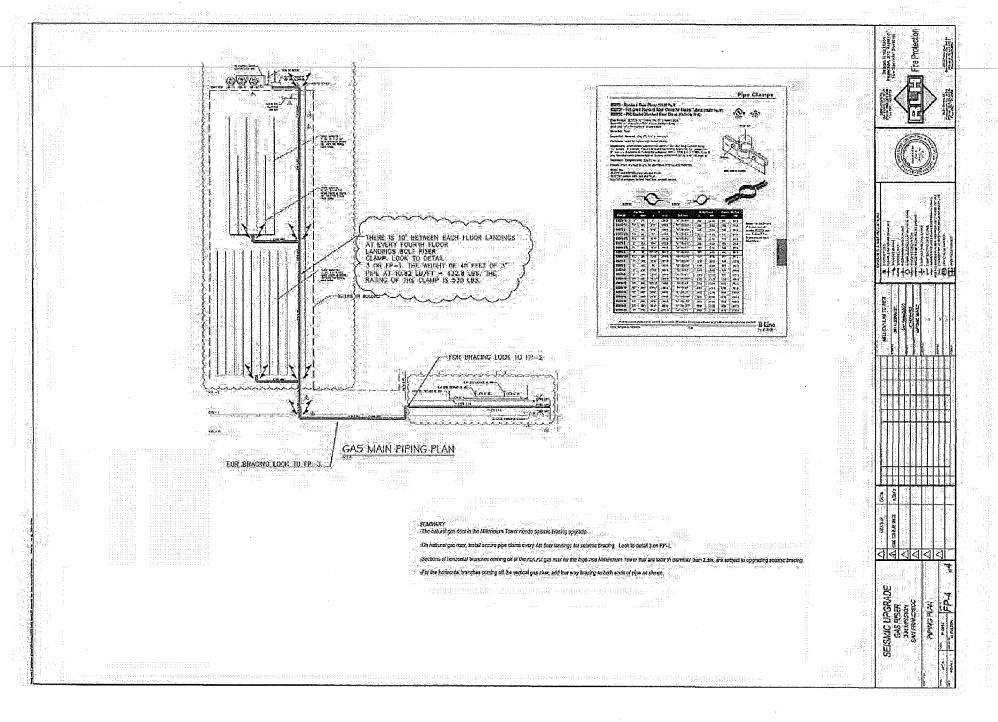


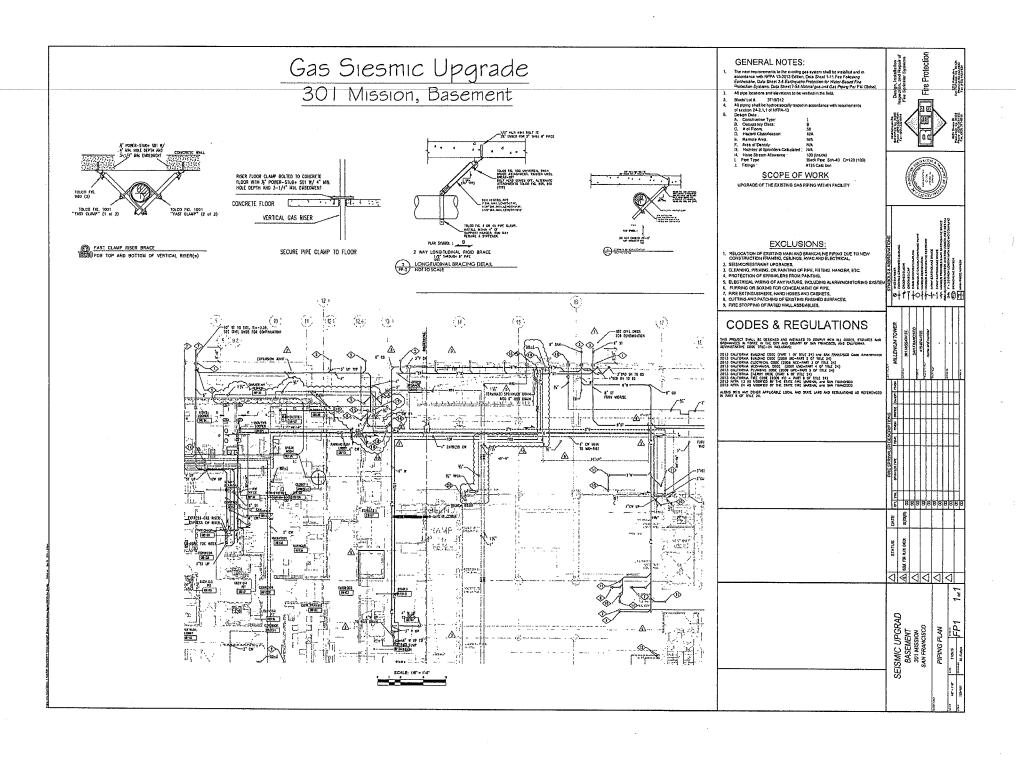


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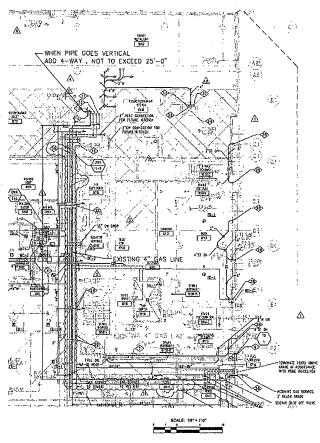
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Seismic Upgrade 301 Mission, Garage Floor



GENERAL NOTES:

The new reprovements to the existing gas system while be installed and in accordance with NFPA 13-2013 Edition, Data Sheet 1-14 Fee Followay Exhibitoria, Data Sheet 2-4 Earlinguine Projection for Whiter-Opsoc Five Projection Systems, Data Sheet 1-54 National gas and Gas Parcy Fee FM

Protection Systems, DNS Steres 1-14 National year and Gas IP And Page leaderson and observation to be underfaced in the fields.

Block (u. f. = 3119)112
All populy values Protections are underfaced in accordance with of section 4-2-1, 1. of NEPPA-1.)
Protection Company Class (i. of NEPPA-1.)
B. Occupancy Class B. C. of Report C. of Ref Protection Company Class B. C. of Report C. of Ref Protection Company Class B. C. of Ref Protection Company Class B. Occupancy Clas



SEISMIC UPGRADE FOR GAS PIPING WITHIN THE FACILITY

EXCLUSIONS:

- RELOCATION OF EXISTING MAIN AND BRANCHLINE PIPING DUE TO NEW CONSTRUCTION FRAMING, CELENGS, HVAC AND ELECTRICAL, CLEANING, ARMING, OF PIPE, FITTING, HANGER, ETC, PROTECTION OF SPRINGLESS FROM PAINTING.

- 1. PHOLEDIARIO E PRIMERES PROBRIMINOS.

 5. FURRINO OR BOXING FOR CONCEALMENT OF PIPE.

 6. RIRE EXTINGUISHERS, MANO HOSSES AND CABINETS.

 7. CUTTIVA AND PATCHING OF EXISTING FURBLED SURFACES.

 8. FIRE STOPPING OF RATED WALL ASSEMBLIES.



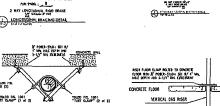




CODES & REGULATIONS



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EXHIBIT

E

EXHIBIT E

NAME OF TEST	VENDOR RESPONSIBLE	FREQUENCY OF TEST	DATE OF RENEWAL	COST	NOTES	AGENCY OVERSIGHT
Fire Sprinkler System Test 5yr	RLH/ Eng	every 5 years	2019	d	one 2014	\$23,0
Fire Sprinkler System Test	RLH/Eng	1X per year	March	vi	sual in units needed	\$11,6
Fire Alarm/life safety testing	redhawk/eng	. 2X per year	March/oct	te	sting in units needed	\$19,8
SFFD inspection	SFFD/Eng	1X per year	SFFD		ates by SFFD	\$15,0
Fire Extinguisher Testing	Coast Fire Equipment	1X per year	November			\$2,0
Fire Extinguisher Testing/6yr	Coast Fire Equipment	every 6 years	2020	6	yr service done oct 2014	
Fire Extinguisher Testing/12yr	Coast Fire Equipment	every 12 years	2020		ydro test at 12 yrs	
Fire System Inspection	Engineering	3x daily			aily rounds	
Fire system Monitoring	Engineering	3x daily			n line with Red Hawk	
Fire Pump Test	Engineering Dept.	weekly		ir	house run test	
Fire pump annual Test	RLH/eng	1x per year	march			
Fire Pump inspection	Engineering Dept.	3x daily		w	alk through inspt	***************************************
Fire Drill	Engineering Dept.	1X per year	August	b	uilding wide drill	
Life Safety Systems Checks	Engineering Dept.	Monthly		st	andpipe pressure cks	
Fire Safety System Training	Engineering Dept.	Monthly		re	eview with security	
smoke detector cleaning	Engineering Dept.	2x per year				
Fire place inspections	Attractions services	Annually	call	cl	Indoor and outdoor	\$1,5
Fire place inspections	Engineering Dept.	3x daily		cl	indoor and outdoor	
Emer Generator Test/Maintenance	Cummins/Eng	Quarterly/Annually				\$7,1
Emer Generator Test	Engineering Dept.	Monthly		Ir	house run/load test	
Emer Generator Inspection	Engineering Dept.	3x dally		W	alk through inspt	
Elevator Testing/Maintenance	Mitsubishi/Eng	1X per year	March	r	un with emerg power	\$228,8
Elevator Testing Syr	Mitsubishi/Eng	every 5 years	2019	5	yr load test done 2014	
Elevator Testing	Mitsubishi	Monthly		F	remen safety test	
Elevator License Renewal	Mitsubishi/Eng	Annually	May			
Elevators C1-C6 Cosmetic Maint./CL	Interior Wood	Quarterly		· a	Il cars and cl lounge area	\$9,5
Man lift Test/Service	Cromer	Monthly		В	1-b5 garage	\$2,7
Man lift Test	Engineering Dept.	Weekly		В	1-b5 garage	
Manntech Inspection	AC3	Annually	September	Т	ower window rig	\$2,0
Spider/Sky rider Inspection	AC3	Annually	April	N	1idrise window rig	\$6,0
Manntech Rope change	AC3	every 5 years	2020	Т	ower window rig	\$31,3
Manntech/sky rider preuse	AC3	as needed		Т	ower/midrise	\$1,0
Mains Drain Maintenance	Impressive Plumbing	Quarterly			et all mains	\$2,4
Domestic PRV Inspection	Engineering Dept.	Annually	July	R	ebuild all prvs as necessary	
Circuit setter maintenance	Engineering Dept.	every 5 years	2020	a	ccess and clean all strainers	
Backflow Testing/certification	Backflow Prevention Specialists	Annually	March			
Expansion Tanks Checks/refill	Engineering Dept.	Annually	June	C	omestic tanks	
Rn74 Jetting	Impressive Plumbing	Semi-Annually		.].	et all mains in RN74	RN74 Covers
Planter box drain Maintenance	Engineering Dept.	Quarterly		S	nake all drains	
Domestic water PSI check	Engineering Dept.	Bi-weekly		c	k pressure all loops	
Drain clearing @ units 301&305	Engineering Dept.	Quarterly		i,	nspect and clean	

Engineering Dept.	every 2 weeks			inspect and clean	
Engineering Dept.	Semi-Annually				
Downing/ENG	Quarterly/annually				\$61,971
Automated Controls	Quarterly			BMS systems CK	\$7,160
Downing/ENG	Annually	June		City of SF plumbing div	
Thermotest Inc	Every 5 years	2018	3	done 2013	\$8,000
Engineering Dept.	Annually	June		Closed loop tanks	
Engineering Dept.	Monthly				
Garratt-Callahan	Monthly	•		all 7 loops	\$10,800
Engineering Dept.	Weekly			all 7 loops	
Engineering Dept.	monthly			inspect/replace	
Engineering Dept.	Quarterly			inspect/replace	
Engineering Dept.	Daily			Blowdown/inspect	
Engineering Dept. :	. 3x Daily			Daily Rounds	
Hills Pool	Daily			chemical testing/cleaning	
Engineering Dept.	3X Daily			Daily Rounds	
Engineering Dept.	3x per week		<i>V</i>	Install pool machine	
Engineering Dept.	. every 2 weeks			Chemical testing	
CA Door and glass	Quarterly			garage in/out	
CA Door and glass	Semi-Annually			Loading dock	
CA Door and glass	1x per 3 years	Jul-1	8 10K (5K each door)	garage in/out	
Engineering Dept.	Daily				
Engineering Dept.	Quarterly				
Engineering Dept.	Bi-Weekly				
Engineering Dept.	Annually	January	~\$1,000	SF Health Dept	
Engineering Dept.	Annually	January		New Battery install	
EcoLab	Monthly			inspect/maintain	\$4,920
Engineering Dept.	Bi-weekly			Change filters	
Engineering Dept.	Quarterly			Change filters	
AL Cal	Annually			inspection	\$2,115
Marble West					
Club Care	Monthly			service	\$2,460
	Engineering Dept. Downing/ENG Automated Controls Downing/ENG Thermotest inc Engineering Dept. CA Door and glass CA Door and glass CA Door and glass CA Door and glass Engineering Dept.	Engineering Dept. Downing/ENG Automated Controls Downing/ENG Annually Thermotest inc Engineering Dept. Daily Engineering Dept. Engineering Dept. Engineering Dept. Daily Engineering Dept. Sax Daily Hills Pool Daily Engineering Dept. Engineering Dept. Engineering Dept. Sax Daily CA Door and glass CA Door and glass CA Door and glass CA Door and glass Engineering Dept. Annually Engineering Dept. Engineering Dept. Engineering Dept. Engineering Dept. Engineering Dept. Annually Engineering Dept. E	Engineering Dept. Downing/ENG Automated Controls Downing/ENG Annually Downing/ENG Annually June Thermotest Inc Engineering Dept. Engineering Dept. CA Door and glass CA Door and glass CA Door and glass Semi-Annually Engineering Dept. Annually Innually Innu	Engineering Dept. Downing/ENG Automated Controls Quarterly/annually Downing/ENG Annually Downing/ENG Annually Downing/ENG Annually Thermotest inc Every 5 years Engineering Dept. Annually Engineering Dept. Monthly Engineering Dept. Weekly Engineering Dept. Monthly Engineering Dept. Daily Engineering Dept. Daily Engineering Dept. Sx Daily Engineering Dept. Sx Daily Engineering Dept. Engineering Dept. Engineering Dept. Sx Daily Engineering Dept. Sx Daily Engineering Dept. Engineering Dept. Engineering Dept. Sx Daily Engineering Dept. Engineering De	Engineering Dept. Downing/ENG Quarterly/annually Automated Controls Quarterly Annually June City of SF plumbling div Thermotest Inc Every 5 years Engineering Dept. Annually June Closed loop tanks Engineering Dept. Monthly Engineering Dept. Uweekly Engineering Dept. Engineering Dept. Engineering Dept. Engineering Dept. Engineering Dept. Engineering Dept. Anually Daily Engineering Dept. Engineering Dept. As Daily Engineering Dept. Billus Pool Engineering Dept. As Daily Engineering Dept. Engineering Dept. As per week Engineering Dept. Engineering Dept. CA Door and glass Quarterly GA Door and glass CA Door and glass Semi-Annually Loading dock CA Door and glass Ix per 3 years Jul-18 10K (5K each door) Bargee in/out Engineering Dept. Daily Engineering Dept. Engineering Dept. Engineering Dept. Annually January *51,000 SF Health Dept Engineering Dept. Engineering Dept. Annually January New Battery Install Engineering Dept. Engineering Dept. Annually January New Battery Install Engineering Dept. Engineering Dept. Annually January New Battery Install Engineering Dept. Engineering Dept. Annually January New Battery Install Engineering Dept. Engineering Dept. Engineering Dept. Annually January New Battery Install Engineering Dept. Change filters Engineering Dept. Change filters Engineering Dept. Engineering Dept. Engineering Dept. Annually Inspection

EXHIBIT

F

EXHIBIT F



AUTOMATIC FIRE ALARM SYSTEM INSPECTION/CERTIFICATION

Job Name: Address;	MILLENNIL 301 MISSIC				Date: 2/22/2016 Work Order #: 3212232
City:	SAN FRAN	cisco	State: CA	Zip: 94105	
Tech. Name:	DARWIN				
Central Station	n Name:	RED I	1AWK		
Central Station	n Account#:	04-05			
Central Station	n Phone #b	408-6	29-4414		
Preliminaries					
Building Person			Name: ANTONIO	Time: 6:30 AM	By:DA
Central Station	on-rue:	50000 1 1000000	Operator: GASRIEL	Time: 5:45 AM	BY:DA
Pretest Status	6 NAC C.6-4		☐ Normal DISABLED BUTTONS		ain) 27 DISABLED POINTS
Disconnect Aux Location of As-E		m type.	ENGINEERING	l⊘ hieralliteet sitei	ncaces
Original Certification	이 시기요하다 하다 다		Periodic System Inspec	flon ⊠	
Cirdinal Actilian	Meil Ch		3 Andrew Alexander (1984)		
Inspection T	ype	Service	Performed	Scope of Work Perfor	med % of Device Tested;
☑ Fire Alarm		∐ Month	ļý Inspection	☑ Full Inspection	□,10%
Sprinkler		□ Ві-Мо	nthly inspection	☐ Water Flow Inspection	1 □ 25%
☐ Preaction		☐ Quart	erly Inspection	☐ Battery Load Testing	□50%
☐ FM200		☐ Semi-	Annual Inspection	☐ 10% Trouble Testing	⊠ 100%
Exit/ Emerg	jency Lights		il Inspection	☐ NAC Testing	☐ i Device/Zone
Fire Exting		∥ Servic	明 (1875) - 1775 - 1875 - 1875 - 1875 - 1875 - 1875 - 1875 - 1875 - 1875 - 1875 - 1875 - 1875 - 1875 - 1875 - 1	☐ Service Repair	☐ Other
 ☐ Other		☐ Fire D	M. daini	Monitoring Install	**************************************
				/Programming	
Basic Informa	ation				
Local Alarm	Yes □			Oty of Zones or Loc	ips; 10 LOOPS
Central Station	Yes ⊠				
Municipal	Yes □			Wired: □A D	₫ ₿
Proprietary	Yes 🔲				
Volce	Yes⊡			Oty of Active NAC (Circuits: 137
System Model	EST-3		***************************************	Wired: 🔲 A 🛛	₫B

4384 Enterprise Place, Fremont, CA 94538 Phone: 510-438-1300 / Fax 510-438-1350



CONTROL PANEL TEST		COMMENTS:
Visual Display	□N/A ⊠Pass □Fail	NODE 1 (MAIN FIRE PANEL)
AC Power On = LED	□N/A ☑Pass □Fail	
Alarm Silenca – LED	□N/A ⊠Pass □Feil	
Program Fault - LED	□N/A ⊠Pass □Feil	
Alarm - LED	□N/A ⊠Pass □Fail	
System Trouble - LED	□N/A ⊠Pass □Fait	
Check all Fuse Ratings	⊠N/A □Pass □Fail	
Set Time/Date	□N/A ⊠Pass □Fail	
Walk Test Silent	⊠N/A □Pass □Fail	
Print Log	□N/A ⊠Pass □Fail	
Print Detector Sensitivity	⊠N/A □Pass □Faif	
Cancel Access	⊠N/A □Pass □Fail	
Alarm/Trouble Acknowledge	□N/A ⊠Pass □Fail	
Alarm Silence Resound	□N/A ⊠Pass □Fail	
Reset/Lamp Test	□N/A ⊠Pass □Fail	
Panel Sounder	□N/A ⊠Pass □Fail □N/A ⊠Pass □Fail	
Graund Type	□N/A ⊠Pass □Fail □N/A ⊠Pass □Fail	and the control of th
Positive Ground Fault Negative Ground Fault	□N/A ⊠Pass □Fail	
Negative Glouno Fault Signal Circuit-Short	□N/A ⊠Pass □Fail	
Signal Circuit-Open	□N/A ⊠Pass □Fail	
Subsequent Alarm/Trouble	□N/A ⊠Pass □Fall	the contraction of the contracti
Paint Dis/Reconnect	□N/A ⊠Pass □Fail	
AC Disconnect Labeled	□N/A □Pass ⊠Fail	· "你就是一块头,你就就是,我看了老师上的话,我还有一点一样,一样不是是一点,你就是一点的话,一样的话,一样的话。"
AC Breaker Locked On	□N/A □Pass ⊠Fail	
Clean Door & Window	□N/A ⊠Pass □Fail	
AC Voltage	120.0 V. PASS	
Battery Voltage (AC On)	26.5 V. PASS	
Battery Voltage (AC Off)	26.3 V. PASS	
System Voltage (AUX)	26.3 V. PASS	
Battery Load Test (end V)	12.4 V. PASS	4 Hilli
Charging Current	.030 A. PASS	
Battery Size (AH)	75 AH. PASS	- 197 1848
Expiration date	<i>41</i> 2018 ⋅	PASS
Batteries labeled	YES	PASS.
		OMMENTS:
VOICE EVAC. SYSTEM Model Number	□N/A ⊠Pass □Fail	THE NOTE IN THE REAL HEAD TO A STREET TO THE TOTAL TO TH
Manufactuer Name	□N/A ⊠Pass □Fail	能能はTODAN は下すなは (TODAN) としまった。 しょうしょう しゅうしゅう しゅうしゅう しゅうしゅう しゅうしゅう しゅうしゅう
Number of Amps	□N/A ⊠Pass □Fail	AND TO THE WITH A WITH A SECRET AND A SECRETA AND A SECRET AND A SECRE
Amp, Model Number	□N/A ⊠Pass □Fail	
Number of Speaker Zones	□N/A ⊠Pass □Fail	ALCOHOLOGICAL SERVICE AND A SE
Number of Phone Zones	□NA ⊠Pass □Fall	
Test all Speakers	□N/A ⊠Pass □Fail	
Short Test	□N/A ☑Pass □Fail	war and the second of the seco
Open Test	□N/A ⊠Pass □Fail	
Ground Test	□N/A ⊠Pass □Fail	
Test all Handsets	□N/A ⊠Pass □Fail	BUILT-IN EVAC SYSTEM (SHARES AC AND DC WITH MAIN
Test all Phone Jacks	□N/A ⊠Pass □Fall	FIRE PANEL)
Battery Load Test (end V)	NAV.	is an entering your pulliform on the common of the common
Battery Size	NA AH	
Expiration Date	NA	
Batteries labeled	NA	

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NODE PANEL		COMMENTS:
Location 1	FACP RM	The series and the series of t
Number of node tested	NODE 2	
Visual Display	⊠N/A ⊟Pass ⊟Fail	
AC Power On - LED	⊠N/A □Pass □Fail	
Alarm Silence = LED	⊠N/A □Pass □Fail	
Program Fault-LED	⊠N/A ∐Pass ∏Fail	
Alarm-LED	⊠N/A □Pass □Fail	
System Trouble ∺ LED ⊫	⊠N/A □Pass □Fail	
Check all Fuse Ratings	⊠N/A □Pass □Fail	
Sel Time/Date	⊠N/A ∐Pass ∏Fail	
Walk Test Silent	⊠N/A □Pass □Fail	
Print Log	⊠N/A □Pass □Fail	
Print Detector Sensitivity	⊠N/A □Pass □Fail	
Cancel Access	⊠N/A ⊡Pass ⊡Fail	
Alarm/Trouble Acknowledge	⊠N/A □Pass □Fail	
Alarm Silence Resound	⊠N/A ⊡Pass ⊡Fail	
Reset/Lamp Test	⊠N/A □Pass □Fail	
Panel Sounder	⊠N/A □Pass □Fail	
Ground Type	□N/A ⊠Pass □Fail	ELECTRICAL
Positive Ground Fault	□N/A ⊠Pass □Fail	- 355 (120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 1 6 (120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 -
Negative Ground Fault	□N/A ⊠Pass □Fail	
Signal Circuit-Short	□N/A ⊠Pass □Fail	
Signal Circuit-Open	□N/A ⊠Pass □Fail	
Subsequent Alamn/Trouble	□NIA ⊠Pass □Fail	
Point Dis/Reconnect	□N/A ⊠Pass □Fail	onenenenenen erroren 18 - 18 merika
AC Disconnect Labeled	□N/A ⊠Pass □Fail	ELP-TCLA/CKT 13 (CL ELEC. RM)
AC Breaker Locked On	□N/A ⊠Pass □Fail	
Clean Door & Window	∷ DN/A ⊠Pass ⊡Fail	
AC Voltage	120.1 V. PASS	
Battery Voltage (AC On)	26.5 V, PASS	
Battery Voltage (AC Oਜ)	26.4 V. PASS	
System Voltage (AUX)	26.5 V. PASS	
Battery Load Test (end V)	123V, PASS	
Charging Current	.030 A. PASS	
Battery Size (AH)	55 AH PASS	
Expiration date	4/2018	PASS
Batteries labeled	YES	PASS
Tech Name: DA	Date; 2/22/2016 F	Review deficiencies with Customer 🗵 Yes



NODE PANEL		COMMENTS:	i van nes unitar desti. Sees sees ein een sees een
Location 1	B3 LEVEL ELEC. RM		
Number of node tested	NODE 3		
Visual Display	⊠N/A □Pass □F	all	
AC Power On - LED	⊠N/A □Pass □F		
Alarm Silence – LED	⊠N/A □Pass □F		
Program Fault – LED	⊠N/A □Pass □F	ail	
Alarm = LED	⊠N/A □Pass □F	all	
System Trouble – LED	⊠WA □Pass □F	ail	
Check all Fuse Ratings	⊠N/A □Pass □F	eil .	
Set Time/Date	⊠N/A □Pass □F		
Walk Test Silent	⊠NA □Pass □F	ail e	
Print Log	⊠N/A □Pass □F	all	
Print Detector Sensitivity	⊠N/A □Pass □F	all	•
Cancel Access	⊠N/A □Pass □F	al	
Alarm/Trouble Acknowledge	⊠NVA □Pass □F	ail	
Alarm Silence Resound	⊠N/A □Pass □F	al a	
Reset/Lamp Test	⊠N/A □Pass □F	ail	
Panel Sounder	⊠N/A □Pass □F	all and the second of the seco	
Ground Type	□NA⊢⊠Pass □F	ail ELECTRICAL	***************************************
Positive Ground Fault	□N/A ⊠Pass □F	al all	
Negative Ground Fault	□N/A. ⊠Pass □F	alt in the second	
Signal Circuit-Short	□N/A ⊠Pass □F	all	
Signal Circuit-Open	□N/A ⊠Pass □F	al	
Subsequent Alarm/Trouble	□NA ⊠Pass □F		
Point Dis/Reconnect	□NA ⊠Pass □F		Bodo Book of Analysis and the
AC Disconnect Labeled	□N/A ⊠Pass □F	ail PANEL ELP B2A/ CKT 20 (B2 EL	EC.RM)
AC Breaker Locked On	□N/A ⊠Pass □F	割	
Clean Door & Window	□N/A 図Pass □F	ail	111
AC Vottage	119.3 V. PAS	S	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Battery Voltage (AC On)	26.8 V. PAS	\$	
Baltery Voltage (AC Off)	26.6 V. PAS	S	
System Voltage (AUX)	26,8 V. PAS	S	
Battery Load Test (end V)	12.5 V PAS		
Charging Current	.030 A. PAS	\$	
Battery Size (AH)	55 AH. PAS		
Expiration date	10/2018	PASS	1
Batteries labeled	YES	PASS	
me, DAL	Date: 2/22/2015	Review deficiencies with Customer	VI Vaè
9(19), <u>17</u> 15	1 1 0 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Transmines will so so that F	



NODE PANEL	COMMENTS:	
Location 1	LLEVEL (MID RISE) ELEC: RM	
Number of node tested	NODE#	
Visual Display	⊠N/A □Pass □Fail	
AC Power On - LED	⊠N/A. □Pass □Fail	
Alarm Silence – LED	⊠N/A □Pass □Fail	
Program Fault-LED	⊠N/A □Pass □Fail	
Alami - LEO	⊠N/A □Pass □Fail	
System Trouble - LED	'⊠N/A. □Pass □Fail	
Check all Fuse Ratings	⊠N/A □Pass □Fail	
Set Time/Date	⊠WA □Pass □Fail	
Walk Test Silent	⊠NA, ⊡Pass ⊡Fail	
Print Log	⊠NA. □Pass □Fail	
Print Detector Sensitivity	⊠N/A □Pass □Fail	
Cancel Access	⊠N/A. □Pass □Fall	
Alam/Trouble Acknowledge	⊠NA ⊡Pass □Fail	
Alarm Silence Resound	⊠N/A □Pass □Fail	
Reset/Lamp Test	⊠N/A. □Pass □Fall	
Panel Sounder	⊠N/A □Pass □Fail	
Ground Type	□N/A ⊠Pass □Fail ELECTRICAL	
Positive Ground Fault	□NA ⊠Pass □Fail	11.11
Negative Ground Fault	□N/A ☑Pass □Fail	
Signal Circuit-Short	□N/A ⊠Pass □Fail	
Signal Circuit-Open	□NA ⊠Pass □Fail	
Subsequent Alam/Trouble	□N/A ⊠Pass □Fail	
Point Dis/Reconnect	□N/A ⊠Pass □Fail	t but haaf
AC Disconnect Labeled	□N/A ☑Pass □Fail PANELELP-M3 / CKT 2 (3RD EL	EC.RM)
AC Breaker Locked On	□N/A ⊠Pass □Fail	ar Bellemannelle
Clean Door & Window	□N/A ⊠Pass □Fail	
AC Voltage	120.1 V. PASS	
Battery Voltage (AC On)	26.8 V. PASS	
Battery Voltage (AC Off)	z6.7 V. PASS	
System Voltage (AUX)	26.7 V. PASS	
Battery Load Test (end V)	12.6 V. PASS	
Charging Current	03 A PASS	
Battery Size (AH)	55 AH. PASS	
Expiration date	10/2018 PASS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Batteries labeled	YES PASS	



vame: DA		Date: 2/22		197	eview deficiencies with Customer 🗵 Yes
- 18 Maria 19 19 19 19 19 19 19 19 19 19 19 19 19	ries labeled	YES		146	PASS
La La Maria Para	y Size (An) ation date	8/2016			PASS
11724935944	ry Size (AH)	55 AH.	** 中 3 法的	7.7	
18 54 54 5	ing Current	.030 A	PA		
	m Voltage (AUX) y Load Test (end V)	28.1 V. 12.3 V.	PA		
3750 170	ry Voltage (AC Off)	26.6 V. 26.7 V.	FA PA	1916.3	
2-78-4-PS (C	ry Voltage (AC On)	26.7 V₂ 26.6 V,	00 TA	SS SS	
AC V	19.55 N. N. S. B. S.	119,8 V			
3.77	Door & Window		⊠Pass □	22 - 10 - 10 - 1	
10 T 10 T 10 T 10 T 10 T	reaker Locked On	□N/A.	⊠Pass □	100	
2011 75 #1	sconnect Labeled	□N/A	⊠Pass □		PANEU ELP 12B/ CKT 4 (12TH ELEC: RM)
2 - 7 - 7	Dis/Reconnect	□N/A	⊠Pass □	F1.	المناح المالة المحالية المجالية المجالة المالة
1775 74 4	equent Alarm/Trouble	□N/A	⊠Pass □		
4 This is a single	l Circuit-Open	□N/A	⊠Pass □		
*#####################################	Circuit-Short		⊠Pass □	71170	
100	live Ground Fault		⊠Pass □	to the late	
1.12.19.89	ve Ground Fault	□N/A	⊠Pass □	S 15 10 1	
in the Arabi	nd Type	□N/A	⊠Pass □	1000	ELECTRICAL
1777 443 2	Sounder	⊠n/A CIVIA	☐Pass ☐I	9 色濃粒。	ELECTORAL
and the same of the same	/Lamp Test	⊠N/A SZN/A	☐Pass ☐		
2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Silence Resound	⊠N/A	☐Pass ☐	and the same	
40.0	Trouble Acknowledge	⊠N/A.	□Pass □	440 (000)	
1. 5 8 80 5	el Access		□Pass □	Alexander Control	
3 5 6 6 76	Detector Sensitivity		□Pass □		
Print !		11 1 SQRMS195	□Pass □	J. 188	
Transmit on a first part	Test Silent	111 12 N. J.	□Pass □	2 3 3000	
10 4 5 M 12 M	me/Date	and the second section of the section of the second section of the secti	□Pass □	4	
To the sign of a sign of	kall Fuse Ratings	⊠N/A.	□Pass □		
	m Trouble – LED	⊠N/A.	Pass D		
100000000000000000000000000000000000000	=LED	⊠N/A.	□Pass □		
31.35.75	am Fault – LED	⊠N/A	□Pass □	Trails.	
1 10 10 10 10	Silence – LED.	⊠N⁄A	□Pass □	2 Turbadi	
	ower On - LED		□Pass □		
4.45	l Display		□Pass □	22.0	
117 17 18	er of node tested	NODE	BENERAL STEEL		
Locat	VSI was a success of the control of	 1. 5.43 \$475,48 	LR (MID RISI	:) ELI	EC:RM
Park to the park	<u> PANEL</u>		Nersi Kardire	13. サマボ	COMMENTS
K17-7-7					COMMENTER

Nodified on: 04/03/2011

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(Name: DA :d on : 04/03/2011	Date: 2/22/2016	Treview deminercies Wi		
Paragraphic Co. and Cale of the Co.	Service Control of the Control of th	Review deficiencies wi	th Circlomer 🔀 Ver	
Expiration date Batteries labeled	4/2018 YES	PASS		
Battery Size (AH)	55 AH.	PASS	- **	
Charging Current	.030 A.	PASS PASS		
Battery Load Test (елd		PASS		
System Voltage (AUX)	.26.8 V	PASS		
Battery Voltage (AC Off		PASS		
Battery Voltage (AC On	The same of the sa	PASS		
AC Voltage	120.0 V.	PASS		
Clean Door & Window	□N/A ⊠Pass	C (C + + + + + + + + + + + + + + + + + +		
AC Breaker Locked On		(B) 4 mg, (\$4 4)		
AC Disconnect Labeled	한 선생님이 아니는 그는 것이 가득하면 함께 하는 모양을 모든 것이 없다고 있다.		CKT 7 (CL ELEC. RM)	
Point Dis/Reconnect	□N/A ⊠Pass	人名 一点 性質的 人名斯韦尔 人名人姓氏克伯特 鐵線 医卵巢炎		
Subsequent Alam/∏rov	bie □N/A ⊠Pass	□Fail		
Signal Circuit-Open		□Fait		
Signal Circuit-Short	□N/A ⊠Pass			
Negative Ground Fault	N/A ⊠Pass	□Fail .		
Positive Ground Fault	□N/A ⊠Pass	□Falt		
Ground Type	□N/A ⊠Pass	□Fail ELECTRICAL		
Panel Sounder	⊠N/A □Pass	A No. 1 10 10 10 10 10 10 10 10 10 10 10 10 1		
Reset/Lamp Test	⊠N/A □Pass	NEW 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Alarm Silence Resound		30 / white 1 / safe steed 000 000 100 100 100 100 100 100 100 10		
Alarm/Trouble Acknowle	40 Barriera - Maria Albarda (1944)	# 1		
Cancel Access				
Print Defector Sensitivit	医乳腺 化二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	t A MaTigati A ta A A A A A A A A A A A A A A A A A		
Print Log	 ⊠N/A □Pass	d Calabor IV		
Walk Test Silent	⊠N/Ä □Pass			
Set Time/Date	 ⊠N/A □Pass			
Check all Fuse Ratings	⊠N/A □Pass	No. 2 of the Print of the Control of		
System Trouble - LED	⊠N/A □Pass	53 TT 28 S 1		
Alarm – LED	⊠N/A □Pass	\$4.50 Y (version)		
Program Fault - LED	⊠N/A □Pass	A SA TOP AND A SA S		
Alarm Silence - LED	⊠N/A □Pass	Section 1941 of the section of the s		
AC Power On – LED	⊠N/A □Pass	National Control of the Control of t		
Visual Display	NODE6 ⊠N/A ⊡Pass		111 11111111111111111111111111111111111	
Number of node tested				



□N/A ⊠Pass □Fail □N/A ⊠Pass □Fail □N/A ⊠Pass □Fail □N/A ⊠Pass □Fail PANEL ELP-T16A/ CKT 2 (16TH ELEC. RM)
□N/A ⊠Pass □Fail □N/A ⊠Pass □Fail □N/A ⊠Pass □Fail
□N/A ⊠Pass □Fail □N/A ⊠Pass □Fail
∭N/A ⊠Pašs ⊡Fail
8 (11) (18) (15) (15) (15) (15) (15) (15) (15) (15
□NA, ⊠Pass □Fait
2. 1 [4] [4] [4] [4] [4] [4] [4] [4] [4] [4]
□N/A ⊠Pass □Fail
□N/A ⊠Pass □Fall ELECTRICAL
⊠n/A ⊟Pass ⊡Fail
⊠n/A ⊡Pass ⊡Fail
⊠N/A □Pass □Fall
⊠N/A □Pass □Fail
⊠N/A □Pass □Fail
⊠WA □Pass □Fail
⊠N/A □Pass □Fail
N/A □Pass □Fail
⊠N/A □Pass □Fail
⊠n/A, □Pass □Fail
⊠NA □Pass □Fall
⊠N/A∖ ∏Pass ⊡Fail
⊠N/A. □Pass □Fail
⊠N/A □Pass □Fail
⊠N/A ⊡Pass ⊡Fail
⊠N/A, ⊡Pass □Feili
NODE 7
21ST FLR (TOWER) ELEC. RM

Tech N Modified on : 04/03/2011



Location I Number of node tested Visual Display AC Power On – LED Alarm Silence – LED	30TH FLR (TOWER) ELEC, RM NODE 8 ⊠N/A □Pass □Fail ⊠N/A □Pass □Fail ⊠N/A □Pass □Fail
Visual Display AC Power On – LED Alarm Silence – LED	⊠n/A. □Pass □Fail ⊠n/A. □Pass □Fail
AC Power On – LED Alarm Silence – LED	⊠N/A □Pass □Fail
Alarm Silence – LED	그리 소프트 사용에 살아가는 살아보고 불어난 가장 하는데 그렇게 되었다.
스템, 문변의 원리회사 환경 (시간) 도구 관리 (all Light Head)	XXX CPass CFail
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Program Fault - LED	⊠N/A □Pass □Fail:
Alarm – LED	⊠N/A □Pass □Fail
System Trouble – LED	⊠N/A □Pass □Fail
Check all Fuse Ratings	⊠N/A □Pass □Fail
Set Time/Date	⊠NA □Pass □Fail
Walk Test Silent	⊠N/A □Pass □Fail
Print Log	⊠N/A □Pass □Fail
Print Detector Sensitivity	⊠N/A □Pass □Fail
Cancel Access	⊠N/A □Pass □Fail
Alarm/Trouble Acknowledge	⊠NA □Pass □Fail
Alarm Silence Resound	⊠N/A □Pass □Fail
Reset/Lamp Test	⊠N/A □Pass □Fail
Panel Sounder	⊠N/A □ Pass □ Fail
Ground Type	□N/A 図Pass □ Fail ELECTRICAL
Positive Ground Fault	□N/A ⊠Pass □Fail
Negative Ground Fault	□NA ⊠Pass □Fall
Signal Circult-Short	ÚNA ⊠Pass □Fail
Signal Circuit-Open	□NÄ ⊠Pass □Fail
Subsequent Alarm/Trouble	□NA ⊠Pass □Fail
Point Dis/Reconnect	□N/A ⊠Pass □Fail
AC Disconnect Labeled	□N/A ☑Pass. □Fail PANEL ELP-T28A/ CKT (1) (28TH ELEC. RM)
AC Breaker Locked On	□NA ⊠Pass □Fall
Clean Door & Window	□NA ⊠Pass □Fail
AC Voltage	120.2 V. PASS
Battery Voltage (AC On)	26.8 V/ PASS
Battery Voltage (AC Off)	26.6 V. PASS
System Voltage (AUX)	25.7 V. PASS
Battery Load Test (end V)	12.6 V: PASS
Charging Current	030 A. PASS
Battery Size (AH)	55 AH. PÁSS
Expiration date	4/2018 PASS
Batteries labeled	YES

Tech Name: DA Madified on: 04/03/2011

Date: 2/22/2016 Review deficiencies with Customer ⊠ Yes



Pago Of

	NODE PANEL	COMMENTS:	
	Location (39TH FLR (TOWER) ELEC (RM.	
	Number of node tested	NODE 9	
	Visual Display	⊠NA □Pass □Fail	
	AC Power On - LED	⊠N/A. □Pass □Fail	
	Alarm Silence – LED	⊠N/A □Pass □Fail	
	Program Fault – LED	⊠NA □Pass □Fail	
	Alarm-LEO	⊠N/A □Pass □Fail	
	System Trouble LED	⊠N/A □Pass □Fail	
	Check all Fuse Ratings	⊠NA □Pass □Fail	
	Set Time/Date	⊠NA □Pass □Fail	
	Walk Test Silent	⊠N/A □Pass □Fail	
	Print Log	⊠NA ⊡Pass □Fail	
	Print Detector Sensitivity	⊠N/A □Pass □Fail	
	Cancel Access	⊠N/A: □Pass □Fail	
	Alarm/Trouble Acknowledge	⊠N/A □Pass □Fail	
	Alarm Silence Resound	⊠NA □Pass □Fail	
	Reset/Lamp Test	⊠N/A: □Pass □Fail	
	Panel Sounder	ØNA ⊟Rass ⊟Fail	
	Ground Type	□NA ⊠Pass □Fail ELECTRICAL	
	Positive Ground Fault	□N/A ⊠Pass □Fail	
	Negative Ground Fault	□N/A ⊠Pass □Fail	
	Signal Circuit-Short	□N/A ⊠Pass □Fail	
	Signal Circuit-Open	□NA ⊠Pass □Fail	
	Subsequent Alarm/Trouble	□NA ⊠Pass □Fail	
	Point Dis/Recannect	□N/A ⊠Pass □Fail	
	AC Disconnect Labeled	□N/A ☑Pass □Fail PANELELP T28A/ CKT 13 (28TH ELEC RM)	
	AC Breaker Locked On	□NA ⊠Pass □Feil	
	Clean Door & Window	□N/A ⊠Pass □Fail	
	AC Voltage	120.5 V. PASS	
	Battery Voltage (AC On)	26.8 V PASS	
	Battery Voltage (AC Off)	26.7 V. PASS	
	System Voltage (AUX)	26.8 V. PASS	
	Battery Load Test (end V)	12.5 V. PASS	
	Charging Current	030 A PASS	
	Battery Size (AH)	55 AH. PASS	
··	Expiration date	10/2018 PASS	
	Batteries labeled	YES. PASS	
Tech	Name: DA	Date: 2/22/2016 Review deficiencies with Customer ⊠ Yes	

Modified on 3 04/03/2011

Rehaved some published and a constraint



NODE PANEL	COMMENTS:
Location 1	JOTH FLR (TOWER) ELEC: RM
Number of node tested	NODE 10
Visual Display	⊠N/A , ⊡Pass □Fail
AC Power On ≃ LED	⊠N/A □Pass □Fail
Alarm Silence – LED	⊠N/A □Pass □Fail
Program Fault – LED	⊠N/A □Pass □Fail
Alarm – LED	⊠N/A □Pass □Fail
System Trouble – LED	⊠N/A □Pass □Fail
Check all Fuse Ratings	⊠N/A □Pass □Fail
Set Time/Date	⊠N/A □Pass □Fail
Walk Test Silent	⊠N/A □Pass □Fail
Print Log	⊠N/A (□Pass □Fail)
Print Detector Sensitivity	⊠N/A □Pass □Fail
Cancel Access	⊠N/A □Pass □Fail
Alarm/Trouble Acknowledge	⊠N/A □Pass □Fail
Alarm Silence Resound	⊠NA □Pass □Fail
Reset/Lamp Test	⊠N/A: □Pass □Fail
Panel Sounder	⊠NA □Pass □Faii
Ground Type	□WA ⊠Pass □Fail ELECTRICAL
Positive Ground Fault	□N/A ⊠Pass □Fail
Negative Ground Fault	□N/A ⊠Pass □Fail
Signal Circuit-Short	□NA ⊠Pass □Fail
Signal Circuit-Open	□N/A ⊠Pass □Fail
Subsequent AlamyTrouble	⊡NA ⊠Pass ⊡Fail
Point Dis/Reconnect	□N/A. ⊠Pass □Fail
AC Disconnect Labeled	□N/A ☑Pass □Fail PANEL ELP-T43A/ CKT 4 (43RD ELEC, RM)
AC Breaker Locked On	□N/A ⊠Pass □Fail
Clean Door & Window	□N/A ⊠Pass □Fail
AC Voltage	120.5 V. PASS
Battery Voltage (AC On)	26.9 V. PASS
Battery Voltage (AC Off)	26.8 V. PASS
System Voltage (AUX)	26,8 V. 1PASS
Battery Load Test (end V)	12.3 V. PASS
Charging Current	030 A PASS
Battery Size (AH)	55 AH. PASS
Expiration date	9/2016 PASS
Batteries labeled	PASS PASS
And the second s	and the second control of the second control

Tech Name; DA Medified on: 04/03/2011

Date: 2/22/2016 Review deficiencies with Customer ⊠ Yes



	COMMENTS:	n in andal makimusi Tidahajiga
56TH FLR (TOWER) ELE	C RM	
NODE 11		
⊠N/A □Pass □Fail		
⊠N/A □Pass □Fall		
⊠N/A □Pass □Fall		
⊠N/A □Pass □Fail		
⊠N/A □Pass □Fall		
⊠N/A □Pass □Fail		
□N/A ⊠Pass □Fail	ELECTRICAL	
N/A ⊠Pass □Fail		
□NA ⊠Pass □Fail		
□NA ⊠Pass □Fail		
_N/A ⊠Pass □Fail		
□N/A ⊠Pass □Fail		13
□N/A ⊠Pass □Fail		486 8 - 386 :
N/A ⊠Pass ⊟Fail	PANEL ELP T43A/ CKT 2 (43RD ELEC	.RM)
□N/A ⊠Pass □Fail		
그는 사용하는 것이 많아 그렇게 하고 있다면 하는데 그들이 것		
120.4 V. PASS		
26.7 V. PASS		
26.6 V. PASS		
26.6 V. PASS		
note that the minimum of the first first than the first		
ough, off in termination is also also against each arms.	PASS	
A4 . [72] 444 1	TALK TANK A COLOR OF THE STATE	
	NODE 11	S6TH FLR (TOWER) ELEC. RM NODE 11 SN/A

Tech Name: DARWIN Date: 2/22/2016 Review deficiencies with Customer X Yes

Modified on : 04/03/2011



Page

Location 1	FCC RM	
Number booster tested Short NAC Trouble	PS 5 ∐IVA: ⊠Pass ∐Fail	
Open NAC Trouble	□N/A ⊠P □Fail	60 - 200 - 22 San Jan Barrier (1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 19
Ground Trouble	□N/A ⊠P □Fail	
A/C Voltage		120.1
Battery Voltage	□N/A ⊠P □Fail □N/A ⊠P □Fail	1272 123
Battery Load Test Operate w/ no a/c	□NA ⊠P □Faii	
Trouble w/ no a/c		
Baltery A/H	□NA ⊠P □Fail	35)
Battery Labeled	□N/A 図P □Fail	
Battery Expires	□N/A ⊠P □Fail	4/2018
Location 2	B3 LEVEL ELEC. RM	
Number booster tested	BPS 1	
Short NAC Trouble	□N/A ⊠Pats □Fail	
Open NAC Trouble	□N/A ⊠Pass □Fail	
Ground Trouble	□N/A ⊠Pass □Fail	
A/C Voltage	□N/A ⊠Pass □Fail	119,2
Battery Voltage	□N/A ⊠Pass □Fail	- 5 (SER CATAL ST
Battery Load Test	□N/A ⊠Pass □Fail	12.2
Operate w/ no a/c	□N/A ⊠Pass □Fail □N/A ⊠Pass □Fail	
Trouble w/ no a/c Battery A/H	□N/A ⊠Pass □Fail
Battery Labeled	□N/A ⊠Pass □Fail	문화를 가입니다.
Battery Expires	□N/A ⊠Pass □Fail	4/2 018
Location 3	B3 LEVEL ELEC. RM	
Number booster tested	BPS 2	. 1986001660 E0 - 1986001660 - 1996 - 1986001660 - 1996
Short NAC Trouble	□N/A ⊠Pass □Fail	0000 0000 0000 0000 0000 0000 0000 0000 0000
Open NAC Trouble	□N/A ⊠Pass □Fail	
Ground Trouble	□N/A ⊠Pass □Fail	를 받는 것이 있습니다. 그런 사람들은 사람들이 되었습니다. 경기적은 10 대한 기계를 가입하는 것이 되었습니다.
A/C Voltage	□N/A ⊠Pass □Fail	119.2
Battery Voltage	□N/A ⊠Pass □Fail	25.3
Battery Load Test	□N/A □Pass ☑Fail	11.7 (FAILED)
Operate w/ no a/c	□N/A ⊠Pass □Fall □N/A ⊠Pass □Fall	
Trouble w/ no a/c Battery A/H	□N/A ⊠Pass □Fail	7.2
Battery Labeled	□N/A ⊠Pass □Fail	
Battery Expires	□N/A ⊠Pass □Fail	6/2016
Location 4	B3 LEVELELEC, RM	
Number booster lested	BPS 3	
Short NAC Trouble	□N/A ⊠Pass □Fail	
Open NAC Trouble	□N/A ⊠Pass □Fail	
Ground Trouble	□N/A ⊠Pass □Fait	- 1866-1861 - 1866 - 1866 - 1866 - 1866 - 1866 - 1866 - 1866 - 1866 - 1866 - 1866 - 1866 - 1866 - 1866 - 1866 -
A/C Voltage	□N/A ⊠Pass □Fail	1192
Battery Voltage	□NA ⊠Pass □Fail	26.4
Battery Load Test	□N/A ⊠Pass □Fall	,122; ·
	□N/A ⊠Pass □Fail	 g agraphed to the control of the contr
Operate w/ no a/c		
Trouble w/ no a/c	□N/A ⊠Pass □Faĭl	g.
그리는 그렇게 하고 있는 것은 그래도 하는 다른다면 하면 전혀 하셨다면 하는 것이 없는데 하는데 하는데 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그		B

4384 Enterprise Place, Fremont, CA 94538 Phone; 510-438-1300 / Fax 510-438-1350



NAC BOOSTERS/POWER SL	· · · · · · · · · · · · · · · · · · ·
Location 1	LLEVEL (MID RISE) ELEC RM
Number booster tested	BPS 4
Short NAC Trauble	□NA ⊠Pass □Fail
Open NAC Trouble	
Ground Trouble	
A/C Voltage	□N/A ⊠P □Fail 119.8
Battery Voltage	□N/A ⊠P □Fail 26.4
Battery Load Test	□N/A ⊠P □Fall 12.3
Operate w/ no a/c	
Trouble w/ no á/c	'□N/A ⊠P □Eail
Battery A/H	□N/A ⊠P □Fall 8
Battery Labeled	□N/A ⊠P □Fail
Battery Expires	□N/A ⊠P □Fail 4/2018
Location 2	LLEVEL (MID RISE) ELEC RM
Number booster tested	BPS 5
Short NAC Trouble	□N/A ⊠Pass □Fail
Open NAC Trouble	□N/A ⊠Pass □Fall
Ground Trouble	□N/A ⊠Pass □Fail
A/C Voltage	□N/A ⊠Pass □Fail 119.8
Battery Voltage	□N/A ⊠Pass □Fait 26.3
Battery Load Test	□N/A ⊠Pass □Fail 12.4
Operate w/ no s/c	⊡N/A ⊠Pass ⊡Fall
Trouble v// no a/c	□N/A ⊠Pass □Fail
Battery A/H	□N/A ⊠Pass □Fail 8
Battery Labeled	□N/A ⊠Pass □Fail
Battery Expires	□N/A ⊠Pass □Fall 4/2018
Location 3	L LEVEL (MID RISE) ELEC. RM
Number booster tested	BPS 6
Short NAC Trouble	□N/A ⊠Pass □Fail
Open NAC Trouble	□N/A ⊠Pass □Fail
Ground Trouble	□N/A ⊠Pass □Fall
A/C Voltage	□N/A ⊠Pass □Fall 119.8
Battery Voltage	□N/A ☑Pass □Fall 26.3
Battery Load Test	□N/A ⊠Pass □Fail 12,4
Operate W/no a/c	□N/A ☑Pass □Fall
Trouble w/ no s/c	ПN/A ⊠Pass ПFail
Batlery A/H	□N/A ⊠Pass □Fail 8
Battery Labeled	□N/A ⊠Pass □Fail
Battery Expires	□N/A ⊠Pass □Fail 4/2018
Location 4	CLLEVEL (MID RISE) ELEC. RM
Number booster tested	BPS 7
Short NAC Trouble	□N/A ⊠Pass □Fall
Open NAC Trouble	□N/A ⊠Pass □Fail
Ground Trouble	□N/A ⊠Pass □Fall
A/C Voltage	□N/A ⊠Pass □Faii 119.7
Battery Voltage	□NA ⊠Pass □Fail 26.4
Battery Load Test	□N/A ⊠Pass □Fail 123
Operate w/ no a/c	□N/A ⊠Pass □Fail
Trouble w/ no a/c	□N/A ⊠Pass □Fall
Battery A/H	□N/A ⊠Pass □Fail 8
Battery Labeled	□N/A ⊠Pass □Fail
Battery Expires	□N/A ⊠Pass □Fail 4/2018

and the second s	Tagan ing digital ang ang panggang ang panggang ang panggang ang panggang ang panggang ang panggang ang pangga Bagang panggang panggang panggang panggang ang panggang panggang ang panggang ang panggang ang panggang ang pa			All the state of t		2000
Special and the second		The Parties of the said of the		The shape of the state of the	Harrist Committee of the committee of th	
Tech Name: DA		Date: 2/22/2016	Review r	deficiencies with Custom	er XIYes	100 000 000 000 000 000 000 000 000 000
1	and and the second and and all and the second and t	*** # 15 15 15 15 15 15 15 15 15 15 15 15 15	estra artarettititi (s.a ettolitiv), a	romering file in beinder bereif.		
the property of the second of				- 244 I of a later connects where	per entre de la companya del companya de la companya del companya de la companya del companya de la companya de la companya de la companya del companya de la companya del companya de la companya del companya de la co	
Modified or : 12/5/12	announced that the second seco	Takala nigi da garantaraka a	memoriality of contract of	selbid motivation makes and in	en ien iewe innige beende	
			and the second of the control of the	ing property to the engage of the transfer of the contract of the contract of the contract of the contract of	B. Andreight value of the state of the control of the state of the control of the state of the control of th	and the second second



NAC BOOSTERS/POWER S Location 1	B1 LEVEL (TOWER) ELEC; RM	
Number booster tested	BPS 8	
Short NAC Trouble	⊡Ň⁄A ⊠Pass ⊡Fail	
Open NAC Trouble	□N/A ⊠P □Fail	
Ground Trouble	□NA ⊠P □Fail	
A/C Voltage	□N/A ⊠P □Fail 120.2	
Baftery Voltage	□N/A ⊠P □Fail 26.3	
Battery Load Test	□N/A ⊠P □Fail 12.2	
Operate w/ no a/c	□N/A ⊠P □Fail	
Trouble w/ no a/c	□NA ⊠P □Fail	
Battery A/H	□N/A ⊠P. □Fail 7.5	
Battery Labeled	□N/A ⊠P □Fail	
Battery Expires	□NA ☑P □Fall 1/2017	
Location 2	L LEVEL (TOWER) ELEC. RM	
Number booster tested	BPS 9	
Short NAC Trouble	□N/A ⊠Pass □Fail	
Open NAC Trouble	□N/A ⊠Pass □Fail	
Ground Trouble	□NA ⊠Pass □Fail	
A/C Voltage	□N/A ⊠Pass □Fail 120.0	
Battery Voltage	□N/A ⊠Pass □Fail 26.4	
Battery Load Test	□N/A ⊠Pass □Fail 12.4	
Operate w/ no a/c	□N/A ⊠Pass □Fail	
Trouble w/ no a/c	□N/A ⊠Pass □Fait	
Battery A/H	□N/A ⊠Pass □Fail δ	
Battery Labeled	□N/A ⊠Pass □Fail	
Battery Expires	□N/A ⊠Pass □Fail 4/2018	
Location 3	CL LEVEL (TOWER) ELEC. RM	
Number booster tested	BPS 10	
Short NAC Trouble	□N/A ⊠Pass □Pail	
Open NAC Trouble	□N/A ⊠Pass □Fail	
Ground Trouble	□N/A ⊠Pass □Fail	
A/C Voltage	□N/A ⊠Pass □Fail 120.2	
Battery Voltage	□N/A ⊠Pass □Fail 26.3	
Battery Load Test	□N/A ⊠Pass □Fail 12.3	
Operate w/ no a/c	□N/A ⊠Pass □Faĭi	
Trouble w/ no a/c	□N/A ⊠Pass □Fail	
Battery A/H	□N/A ⊠Pass □Fail 8	
Battery Labeled	□N/A ⊠Pass □Fail	
Battery Expires	□N/A ⊠Pass □Fail 4/2018	
Location 4	L LEVEL (MID RISE) RESTÄURANT STÖRAGE	
Number booster tested	BPS 11	
Short NAC Trouble	□N/A ⊠Pass □Fail	
Open NAC Trouble	'□WA ⊠Pass □Fail	
Ground Trouble	I N/A ⊠Pass □Fall	
A/C Voltage	□N/A ⊠Pass □Fail 118.7	
Battery Voltage	□N/A ⊠Pass □Fail 26.5	
Battery Load Test	□N/A □Pass 図Fall 11.6 (FAILED)	
Operate w/ no a/c	□NA ⊠Pàss □Fail	
Trouble w/ no a/c	□NA ⊠Pass □Fail	
Sattery A/H	□N/A ⊠Pass □Fail 7.2	
Sattery Labeled	□N/A ⊠Pass □Fail	. !!!! .!
	□N/A ⊠Pass □Fail 6/2016	

Tech Name: DA Date: 2/22/2016 Review deficiencies with Customer

⊠ Yes



NAC BOOSTERS/POWER S		i i i da
Location 1 Number booster tested	PH2 (TOWER) ELEC; RM BPS 12	
Short NAC Trouble	□N/A ⊠Pass □Fail	H44.5
Open NAC Trouble	□N/A ⊠P □Fail	
Ground Trouble	□N/A ⊠P □Fail	
A/G Voltage	□N/A ⊠P □Fail 119.8	
Battery Voltage	⊡N/A ⊠P □Fail 26.7	
Battery Load Test	□N/A ⊠P □Fail 12.5	
Operate w/ no a/c	□NA ⊠P □Fail □NA ⊠P □Fail	
Trouble w/ no a/c	□NA ⊠P □Fail 1.5 □NA ⊠P □Fail 7.5	
Battery A/H Battery Labeled	□N/A ⊠P □Fail 7.5. □N/A ⊠P □Fail	
Battery Expires	□NA ⊠P □Fail 3/2019	
Location 2	NA .	
Number booster tested		
Short NAC Trouble	□N/A ⊠Pass □Fail	
Open NAC Trouble	□N/A ☑Pass □Fail	
Ground Trouble A/C Voltage	□N/A ⊠Pass □Fail □N/A ⊠Pass □Fail	
Battery Voltage	□N/A ⊠Pass □Fail	
Battery Load Test	□N/A ⊠Pass □Faii	
Operate w/ no a/c	□N/A ⊠Pass □Fail	
Trouble w! no a/c	□N/A ⊠Pass □Faii	
Battery A/H	□N/A ⊠Pass □Fail	
Battery Labeled Battery Expires	⊡N/A ⊠Pass ⊡Fail ⊡N/A ⊠Pass ⊡Fail	
Location 3		
Number booster tested Short NAC Trouble	□N/A ⊠Pass □Fail	
Open NAC Trouble	□N/A ⊠Pass □Fail	
Ground Trouble	□N/A ⊠Pass □Fail	
A/C Voltage	□N/A ⊠Pass □Fail	
Battery Voltage	□N/A ⊠Pass □Fail	
Battery Load Test	□N/A ⊠Pass □Fall	
Operate w/ no a/c	□N/A ⊠Pass □Fail	
Trouble w/ no a/c Sattery A/H	□N/A ⊠Pass □Fail □N/A ⊠Pass □Fail	
Battery Labeled	□N/A ⊠Pass □Fail	
Battery Expires	□N/A ⊠Pass □Fail	
Location 4	NA	
Number booster tested		
Short NAC Trouble	□NA ⊠Pass □Fail	
Open NAC Trouble	□N/A ⊠Pass □Fail	
Ground Trouble	□N/A ⊠Pass □Fail	
A/C Voltage Battery Voltage	□N/A ⊠Pass □Fall □N/A ⊠Pass □Fall	
Battery Load Test	□NA ⊠Pass □Fail	
Operate w/ no a/c	□NA ⊠Pass □Fail □NA ⊠Pass □Fail □NA ⊠Pass □Fail □NA ⊠Pass □Fail □NA ⊠Pass □Fail	
Trouble w/ no a/c	□N/A ⊠Pass □Fail	
Battery A/H	□N/A ⊠Pass □Fail	alii ea Il
Battery Labeled	LIN∕A ⊠Pass LIFail	
Battery Expires	□N/A ⊠Pass □Fall	
ime: DÁRVÍN	Date: 2/22/2016 Review deficiencies with Custom	er ⊠Yes
on : 12/5/12	3	recording to the second



DACT PERIODIC TESTING Date: 2-22-16

MILLENNIUM TOWERS. Job:

Address: 301 MISSION ST. SF,	CA 94105		Tech Na	me: DA							
FACP Type: EST-3	DAGT Type: MO	D COM	E	omat 4	2 (4+2 etc)						
Take system off-line with Central	Station: □N/A	⊠e Df	Acct Numb	er Da	I-050	1:1:::::::					
Request zone schedule from Cen	tral Station and	list below; LJN/A	⊠P [JF	STATES OF THE ST		12.443 1.144 1.144				
1, ALARM		E COMMON INC.	2. SUPE	RVISORY		Taribanistics	diring				
3, TROUBLE	er didentination of the		4.			Service of the servic	The state of the second state of the second				
7			6. 8.			* Processories	9988 and section of the section of t				
Additional Information: BUILT	-IN DIALER (SP	IARES AC AND DO	W/MAIN	FIRE PAN	VEL)	1071146					
		una Avlathia ettual et las sacilite. Alas a									
AC Voltage: NA	DC Voltage: I	VA.	Load Te	st NA		Battery	Expiration: NA				
Reference of the second of the			rt i Sectorifi Sec	Tudi Lucid Vari	Phoe Pana superior Committee		an and from the second				
Primary Phone Line			Seconda	ry Phone	Line	Transportation					
Manual zone trip	⊠wa □r	? □F	Manualiz	one trip		⊠N/A					
Correct trip and restoral? (@ CS					itoral? (@ CS)	□N/A	□, □ ⊠p □f				
<90 sec. End-to-End Transmissi	Service and the service	# 55 Sept [3] 1600 1600	196	and a longer of	nd Transmission						
Proper DACT zone trip	 □ N/A ⊠		Proper DACT zone trip □N/A ☒P □F								
Primary phone disconnected	TO PARK THE CONTRACTOR	anna kanadari a mma madi	Primary phone disconnected N/A NP DF								
Local trouble signal (within 4 mir	이 시작하시겠습니까 그 그리다.	SALES FARALLES NO CONTRACTOR			l (within 4 min)?		. 어느 그리를 하는 어떻게 무리를 하는 것이 없다. 그리				
Primary Line Trouble (within 4 n	할 때 그리고 있었다. 그 얼마나	The last of the parties and the second of th	and the second	Control of Agreements	le (within 4 min)		to partially the later to the control of the contro				
Reconnect primary, and		第 300 新東 45. **** 201 単連	!"第55 新 新新 1966年1966	ct primary	그 살아왔다면 얼마나 그리 회사에 가입어하다.	□N/A	医内部性皮肤 海绵 医乳 化二氯化二氯化二氯化二氯化				
RJ31X Jack Proper Line Selzurs			The second second		, and r Line Seizure?	THAN					
Litra in Jack Lionel Fills osizine			Lmo IV ne	ick Liobe	rine seizniet						
	Control of the contro	ELEVATOR P	HONE MC	NITORIN	IG TESTING						
CS Name: NA	samaga sagalangi mmaken banda mananasa s										
Elevator Location	Acct#	Caller I.D.#	Pass	Fail	CS Operator	n handas	Remarks				
STORY STANDARD CONTRACTOR OF STANDARD CONTRAC	annese en den metellen meteor ^{ett} Arthoritis				at in a page 1995 to the state of the state						
Constitution and Constitution of the Constitut					Andrew Company						
						80000					
						20,100	######################################				
	The contract of the contract o		dai 🗒 ji			102	1000000				
	7				an garaga	10					
1.000 1	10000	Re 1935.									
		S comment appears of the second									
The second secon	A Company of the Comment of the Comm	processor and production of the control of the cont	of the state of		Manager compression and control of the control of t	of the section	were all				



REMOTE DISPLAY		COMMENTS:	
Visual Display AC Power LED — ON Alarm Silence = LED Program Fault → LED Alarm – LED Alarm/Trouble Acknowledge Alarm Silence Resend Reset/Lamp Test Panel Sounder	N/A	- (ANN 14) B1 I - (ANN 16) B1 I - (ANN 15) L LI	MAINTENACE OFFICE / ENGINEERING RECEPTION / MANAGEMENT OFFICE EVEL SECURITY
REMOTE ANNUNCIATOR			
Power On Lamp Trouble Buzzer Signal Silence Lamp Lamp Test Reset (Remote) Alam Lamp Operation Oly Alam Lamp Labeled Signal Silence	N/A	GANN 12 (GRA LOCATED AT I	PHIC ANN.) FACP (TOWER LILEVEL)
NAC's Tested	COMMENTS: □N/A ☑Yes TESTED: 3/8	ÿ16 & 3/9/16∗i	
Synchronization Ventied	□Nó □N⁄A ⊠Pass □Fail		
FINAL SYSTEM SUMMARY		COMMENTS:	
Note all Deficiencies Reconnect All Aux Functions Reconnect Signal Circuits Place System Online Appropriate field devices have been tested for proper out puts and recorded on	□N/A ⊠Yes □No □N/A ⊠Yes □No □N/A ⊠Yes □No □N/A ⊠Yes □No	SEE DEFICIEN	CY PAGE
Device Data Sheets Program Disk is on Site	_N/A ⊠yes _No _N/A ⊠yes ⊡No		
Work Complete/Building Manag Central Station Notified:		9:00 PM 9:00 PM	Operator#; GABRIEL
THIS TESTING WAS PERFORME	D IN ACCORDANCE WITH	I APPLICABLE N	FPA 2010 EDITION STANDARDS.
Inspection Completed by(Tech	Name): DA	Date: 2	22-16



Inspection Deficiencies Sheet

Job Name	Site Address		Work Order	Page
MILLENNIUM TOW	ERS 301 MISSION	N ST, SF, CA 94105	3212232	1 OF1
cope of work explan:		lonal/Issue (3) Unlested (4) Non-Required F w/additional vendor	Recommendation	
Rank 2	Scope: A	Device Type: BOOSTER BATTERIES	Add/Zonet NA	
Make/Model: BAT1	2V-7.5	Loc./Desc.: SEE BELOW		
Deficiency Desc.)	BATTERIES FAILED THE L - L LEVEL (MID RISE) RES - B3 LEVEL ELEC: RM BPS	com TAURANT STORAGE BPS 11	ipleted under WO#3220	(Marijews Come (Co
Recommendation	COORDINATE W/ RED HA	WK SERVICE DEPT, TO REPLACE FA	AILED BÄTTERIES.	
Rank; 2 Make/Model: EST:		Device Type: SMOKE DETECTO Loc./Desc: B1 LEVEL MAINT.		
Deficiency Desc.		WRONG DESCRIPTION. SHOULD SA INSIDE B1 MAINTENANCE SHOP.	Transfer of the second	M B1-D LETED
Recommendation	COORDINATE W/ RED HAI DESCRIPTION.	WK SERVICE DEPT. TO REPROGRA		₹
Rank: 2	Scope: A	Device Type: FIRE PHONE JAC	K Add/Zone: SEE BELG	JW.
Make/Model: 6833-	The recovering a second of the first of the second of the	Loc/Desc: SEE BELOW		
Deficiency Desc.:	FIRE PHONES FAILED TO - 23 RD FLR STAIR #2	CONNECT TO THE MAIN FIRE PANE	^L completed under W	O#322 0 42
	- 29 FLR STAIR #1		СОМР	LETED
Recommendation	COORDINATE W/ RED HAV	WK SERVICE DEPT. TO REPLACE BA	AD PHONE JACKS:	
Rank: Please Selec Make/Model:	t Scope: Please Sele	ect: Device Type: Loc./Desc.:	Add/Zone.	
Deficiency Desc:	NA.	Printer de la deservação de galacia. Esta 4.00 de la compania del compania de la compania de la compania del compania de la compania de la compania de la compania del compa		



	ere e e e e
The state of the s	
Recommendation NA	
	Programme Programme
Tech Name: DARWIN Date: 2/22/2016 Review deficiencies with Customer ⊠ Yes	
Wodified on; 12/5/12	المستند

RED HAWK Fire & Security

a separate and

Fire Alarm System Points List	THE CONTROL OF THE PARTY OF THE
Name: MILLENNIUM TOWERS	DARWIN
Address: 301 MISSION ST	2-22-16
City: SF State: CA	Ζίρ: 94105
	19994 9

i, allie

Notes:	30/2010			4 1	iar B		
\ddress		Device	Test	Trp.	Visual	Annur	Remarks
1400004	BY LEVEL TELOO GOOD OVOKE BETTOTOP	60	•		20	3	TERRES SOLUTION
	B1 LEVEL TELCO ROOM SMOKE DETECTOR B1 LEVEL HOUSEKEEPING SMOKE DETECTOR	SD	X	ومارية الخر	X		TESTED: 2/25/16 TESTED: 2/25/16
	BI LEVEL TRASH ROOM SMOKE DETECTOR	SD	x	to and	x		TESTED: 2/25/16
A WARRY TO PROPERTY AND ADDRESS OF	B1 LEVEL COMPUTER RM SMOKE DETECTOR	SD	x	(100 miles)	X	_	TESTED: 2/25/16
	B1 LEVEL STORAGE RM 6 SMOKE DETECTOR	SD	X		x		TESTED: 2/25/16
	B1 LEVEL TELCC/ SEC SMOKE DETECTOR	SD	X	Constitution of the	X	_	TESTED: 2/25/16
	B1 LEVEL STORAGE RM 2 SMOKE DETECTOR	SD	Х	1	X		TESTED: 2/25/16
	B1 LEVEL DOMESTIC H2O ROOM SMOKE DETECTOR		X	1 1 2 2 2	x		TESTED: 2/25/16
	B1 LEVEL STORAGE RM SMOKE DETECTOR	SD	X	100000	x	****	TESTED: 2/25/16
	B1 LEVEL CORRIDOR SMOKE DETECTOR	SD	X		Х		TESTED: 2/25/16
	B1 LEVEL TRASH ROOM SMOKE DETECTOR	SD	X	1	x		TESTED: 2/25/16
A CONTRACTOR OF THE PERSON NAMED IN	B1 LEVEL CORRIDOR SMOKE DETECTOR	SD	x	1000	X		TESTED: 2/25/16
	B1 LEVEL SERVICE ELEV LOBBY SMOKE DETECTOR		X		x		TESTED: 2/25/16
	B1 LEVEL SERVICE ELEV LOBBY SMOKE DETECTOR	SD	X	1	x		TESTED: 2/25/16
	B1 LEVEL CORRIDOR SMOKE DETECTOR	SD	Х		х	_	TESTED: 2/25/16
	B1 LEVEL FIRE PUMP RM SMOKE DETECTOR	SD	X	10.0	X		TESTED: 2/25/16
	B1 LEVEL ELEV S1 & S2 LOBBY SMOKE DETECTOR	SD	х		$\overline{\mathbf{x}}$		TESTED: 3/16/16, RECALLED
	B1 LEVEL SERVICE ELEV LOBBY SMOKE DETECTOR	SD	X	(3)	×		TESTED: 2/25/16
	B1 LEVEL CORRIDOR SMOKE DETECTOR	SD	Х		х		TESTED: 2/25/16
	B1 LEVEL MAINT OFFICE SMOKE DETECTOR	SD	х	46.	$\overline{\mathbf{x}}$		TESTED: 2/25/16
	B1 LEVEL STORAGE RM 5 SMOKE DETECTOR	SD	X		х	-	TESTED: 2/25/16
ann auchtra						97	WRONG DESCRIPTION SHOULD SAY BY LEVEL
noccod	B1 LEVEL MAINT: SHOP SMOKE DETECTOR	.sp	ж		iro.	٠	STORAGE RM B1-D SMOKE: DETECTOR*
	B1 LEVEL MAINT, SHOP SMOKE DETECTOR	SD	X	n entered Philippin	X		TESTED: 2/25/16
1 11 17	B1 LEVEL EMERG ELECT. ROOM SMOKE DETECTOR		^		ŵ	-	TESTED: 2/25/16
	BI LEVEL EMERG ELECT, ROOM SMOKE DETECTOR	SD	$\hat{\mathbf{x}}$		x	_	TESTED: 2/25/16
	B1 LEVEL EMERG ELECT. ROOM SMOKE DETECTOR	SD.	X		X		TESTED: 2/25/16
	BI LEVEL SWITCHGEAR ROOM SMOKE DETECTOR	SD	X		X	-	TESTED: 2/25/16
	B1 LEVEL SWITCHGEAR ROOM SMOKE DETECTOR	SD	X	researchers	X		TESTED: 2/25/16
	BILLEVEL SWITCHGEAR ROOM SMOKE DETECTOR	SD	X	_	x		TESTED: 2/25/16
	B1 LEVEL FIRE PUMP RM SMOKE DETECTOR	SD	X	decidency.	$\hat{\mathbf{x}}$		TESTED: 2/25/16
	B1 LEVEL STORAGE RM 1 SMOKE DETECTOR	SD	X	areas -	x		TESTED: 2/25/16
	B1 LEVEL STORAGE RM 1 SMOKE DETECTOR	SD	χ	34.0	×		TESTED: 2/25/16
	B1 LEVEL STORAGE RM 1 SMOKE DETECTOR	SD	X		х		TESTED: 2/25/16
	B1 LEVEL STORAGE RM 1 SMOKE DETECTOR	SD	Х		x		TESTED: 2/25/16
10-	B1 LEVEL CORRIDOR SMOKE DETECTOR	SD	X		х		TESTED: 2/25/16
	BI LEVEL CORRIDOR SMOKE DETECTOR	SD	χ	S 12.0	х	-	TESTED: 2/25/16
020037	BILLEVEL FAN ROOM SMOKE DETECTOR	SD	X		X		TESTED: 2/25/16
	B1 LEVEL ELEVATOR F1 LCBBY SMOKE DETECTOR	SD	X	Single	\mathbf{x}		TESTED: 3/10/16; RECALLED
	B1 LEVEL NEAR ELEV P1 SMOKE DETECTOR	SD	X		Х	Care Colonia	TESTED: 2/25/16
020040	B1 LEVEL ELEV P1 & P2 LOBBY SMOKE DETECTOR	SD	Х	adita			TESTED: 3/10/16; RECALLED
	B1/LEVEL CORRIDOR SMOKE DETECTOR	SD	X,	13F	X		TESTED: 2/25/16
	B1 LEVEL CORRIDOR SMOKE DETECTOR		х	41.4			TESTED: 2/25/16
	B1 LEVEL FSD TB1-9 FSD DUCT DETECTOR	DD	Х	77.7			TESTED: 3/16/16
	B1 LEVEL FSD TB1-3 FSD DUCT DETECTOR	ַםם	х	ccc.			TESTED: 3/15/16
	B1 LEVEL FSD TB1-5 FSD DUCT DETECTOR	מם	X	100			TESTED: 3/15/16
	B1 LEVEL FSD TB1-4 FSD DUCT DETECTOR	DD	х				TESTED: 3/15/16
ひとひしべつ ご				-	x		TESTED: 3/17/16
	LEVEL BANK FAN HP-1 DUCT DETECTOR	DD	Х	a er til			To the state of th
020047	L'EVEL BANK FAN HP-1 DUCT DETECTOR B1 LEVEL FSD TB1-15 FSD DUCT DETECTOR	DD	X				TESTED: 3/15/16

115 24 - 250							
20050 20051	B1 LEVEL FSD TB1-17 FSD DUGT DETECTOR B1 LEVEL FSD TB1-10 FSD DUCT DETECTOR	DD DD	X	ببينسي والتدفعات		TESTED; 3/15/16 TESTED: 3/15/16	
20052	B1/LEVEL FSD.TB1-6 FSD DUCT DETECTOR	DD:	Х	X	X	TESTED; 3/15/16	
20053	B1 LEVEL FAN SF TB1-4 FAN DUCT DETECTOR B1 LEVEL FSD TB1-1 FSD DUCT DETECTOR	DD DD	X	X		TESTED: 3/15/16 TESTED: 3/15/16	fa E
20055	B1 LEVEL FAN SE TB1-3 FAN DUCT DETECTOR	DD	х	x	Х	TESTED: 3/15/16	
	L LEVEL FIRE CONTROL ROOM SMOKE DETECTOR. L LEVEL ELEV P1 & P2 LOBBY SMOKE DETECTOR	SD	X	X	_	TESTED: 2/24/16 TESTED: 3/10/16, RECALLED	
20058	LLEVEL SECURITY RM SMOKE DETECTOR	\$D:	Х	Х	X	TESTED: 2/25/16	
	L LEVEL HIRISE LOBBY SMOKE DETECTOR L LEVEL ELEV C1-C3 LOBBY SMOKE DETECTOR	SD SD	X	X		TESTED: 2/25/16 TESTED: 3/15/16, RECALLED	
	L LEVEL TELECOM ROOM SMOKE DETECTOR	SD	Х	X		TESTED: 2/25/16	
	L LEVEL HIRISE LOBBY SMOKE DETECTOR L LEVEL ELEV S1 & S2 LOBBY SMOKE DETECTOR	SD SD	X	X		TESTED: 2/25/16 TESTED: 3/14/16, RECALLED	
	LIEVEL CORRIDOR SMOKE DETECTOR	SD	Х	Х		TESTED: 2/25/16	
	L'EVEL CORRIDOR SMOKE DETECTOR L'EVEL AT ELEVATOR SMOKE DETECTOR	SD SD	X	X		TESTED: 2/25/16 TESTED: 2/25/16	
C069	LILEVEL ELEVICA & C5 LOBBY SMOKE DETECTOR	SD	Х	X	X.	TESTED; 3/14/16, RECALLED	
	L LEVEL FSD L-3 FSD DUCT DETECTOR L LEVEL FSD L-4 FSD DUCT DETECTOR	DD DD	X	X		TESTED: 3/17/16	
	LLEVEL BANK SERVER ROOM SMOKE DETECTOR!	SD	X	X		TESTED: 2/25/16	
	LLEVEL BANK ELECTRIC ROOM SMOKE DETECTOR LLEVEL BANK ELECTRIC ROOM DUCT DETECTOR	SD DD	X	X		TESTED: 2/25/16 TESTED: 3/17/16	
THE RESERVE	B1 LEVEL FSD B1-18 DUCT DETECTOR L LEVEL BANK FAN HP-2 DUCT DETECTOR	DD DD	X	X X	_	TESTED: 3/15/16 TESTED: 3/17/16	
	L LEVEL BANK FAN HP-3 DUCT DETECTOR	DD	X X	x	-	TESTED: 3/17/16	ja H
	CL LEVEL OUTSIDE AIR BANK DUCT DETECTOR CL LEVEL MECH-ROOM BANK DUCT DETECTOR	DD.	X	X		TESTED: 3/7/16 TESTED: 3/7/16	
	81 LEVEL STORAGE RM SMOKE DETECTOR	SD	X	X		TESTED: 2/25/16	
-	81 LEVEL ELEV P1 & P2 LOBBY SMOKE DETECTOR: B1 LEVEL TELCO ROOM COOR HOLDER RELAY	SD	X	X	X	TESTED: 3/10/16, RECALLED TESTED: 3/9/16	
	B1 LEVEL HP. TB1-12 SHUTDOWN RELAY	CR	X		†	TESTED: 3/15/16	
	B1 LEVEL HP TB1-5 SHUTDOWN RELAY B1 LEVEL HP TB1-6 SHUTDOWN RELAY	CR CR	X		100	TESTED: 3/15/16 TESTED: 3/15/16	
0130	51 LEVEL HP TB1-9 FSD B1-5,7,14 RELAY	CR	χ	dered teach		TESTED; 2/24/16	
THE PERSON NAMED IN	B1 LEVEL HP TB1-7 SHUTDOWN RELAY B1 LEVEL ACU TB1-1 SHUTDOWN RELAY	CR CR	X	ularitani 1974	1	TESTED: 3/15/16 TESTED: 3/15/16	
0133	B1 LEVEL HP TB1-8 SHUTDOWN RELAY	CR	Х	The second second	-	TESTED: 3/15/16	
	B1 LEVEL FSD TB1-4 CONTROL RELAY B1 LEVEL HP TB1-3 SHUTDOWN RELAY	CR	X	in the second		TESTED: 2/24/16 TESTED: 3/15/16	
	B1 LEVEL HP TB1-4 SHUTDOWN RELAY	CR	Х			TESTED: 3/15/16	A i
	B1 LEVEL HP TB1-10 SUTDOWN RELAY B1 LEVEL HP TB1-11 SHUTDOWN RELAY	CR CR	X		8 - 100000 5 - 100000 7 - 150000	TESTED: 3/15/16 TESTED: 3/15/16	
	31 LEVEL HP TB1-2 FSD TB1-10 RELAY B1 LEVEL ACU TB1-2 FSD TB1-8.9 RELAY	CR	X	1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	}_	TESTED: 2/24/16 TESTED: 2/24/16	
	B1 LEVEL HP TB1:1 SHUTDOWN RELAY	CR	X		Pesse	TESTED: 3/15/16	
	B1 LEVEL ELEVATOR F1 DOOR RELEASE RELAY B1 LEVEL FIRE PUMP RM PUMP B1-2 PHASE REV.	CR OT	X		Y	TESTED: 3/10/16 TESTED: 3/3/16	
						TESTED; 3/1/16 TURNS; < 2,5	
0144	BILLYL MAIN FIRE SVC SHUTOFF WALVE TAMPER	Vπ	x	$\ \cdot\ _{\mathbf{x}}$	l x	(MULTIPLE VALVES W/ SAME ADDRESS)	
0145	L LEVEL STAIR 1 VON DUPRIN LOCK RELEASE	CR	Х	152.7		TESTED: 3/9/16	
	L'IEVEL'STAIR 1 VEST VON DUPRIN RELEASE MR L'LEVEL RESTAURANT STROBE PANEL TROUBLE	CR	X			TESTED: 3/9/16 TESTED: 3/9/16	
0149	B1 LEVEL FSD TB1-2 CONTROL MODULE	CR.	Х	rational (Line)		TESTED: 2/24/16.	
	B1 LEVEL FSD TB1-17 CONTROL MODULE B1 LEVEL FIRE PUMP RM PUMP B1-1 RUNNING	CR CT	X			TESTED: 2/24/16 TESTED: 3/3/16	
0152	B1 LEVEL FIRE PUMP RM PUMP B1-1 TROUBLE	CT₃	X			TESTED: 2/29/16	
0154	B1 LEVEL FIRE PUMP RM PUMP 81-1 PHASE REV. B1 LEVEL FIRE PUMP RM PUMP 81-2 RUNNING	CT CT	X X			TESTED: 9/3/16 TESTED: 3/3/16	
CONTRACTOR OF THE PARTY OF THE	B1 LEVEL FIRE PUMP RM PUMP B1-2 TROUBLE B1 LEVEL FIRE PUMP RM SPARE CIRCUIT	CT WF	Х #			TESTED: 2/29/16	
וטוט/	DI ECVEL FINE FUUE MA STARE CIRCUIT	V43	7	rasido d Cara de Santa Cara de Santa	U Tecco	(STRAPPED OUT) TESTED: 3/1/16 TURNS: < 2,5	
n159	B1 LEVEL FIRE PUMP RM VALVE TAMPERS	หา	χ	×	v	(MULTIPLE VALVES W/ SAME ADDRESS)	
and the second	B) LEVEL FIRE PUMP WATER TANK HIGH	CT.	χ			A CONTRACTOR OF THE PROPERTY O	
		and the same		A I	localli		
		197 T			t .g		

0102016									
101209161 LEVEL FISO DAMPER CONTROL RELAY									
101209161 LEVEL FISO DAMPER CONTROL RELAY								÷	
101209161 LEVEL FISO DAMPER CONTROL RELAY									
101209161 LEVEL FISO DAMPER CONTROL RELAY	01020160	TO LEVEL FIRE DUMP WATER TANK LOW	CT	TV	, –		$\Gamma \overline{\vee}$	TECTED: 2/2/16	1
01020162 LEVEL PCC ROOM PS.5 PAREL TROUBLE					\vdash		-^-		1
10120163 LEVEL BANK ELECTRIC ROOM F3D RELAY					\vdash	-	X		•
10120198				+	\vdash		Ĥ		1
101220167 STAIR RZ FIREFICHTERS PHONE				_		Х	Х		1
10120198 ILEV C14SC LOBBY FIREFICHTERS PHONE	01020166	STAIR #1 FIREFIGHTER'S PHONE	CC	Х				TESTED: 3/4/16	1
101020178 ELEV GLOBEY FIREFIGHTERS PHONE	01020167	STAIR #2 FIREFIGHTER'S PHONE	CC	Х				TESTED: 3/4/16	
101220170]
101220171 FIRE PUMP ROOM FIREFIGHTERS PHONE CC					\sqcup				
01020172 STAM #1 SPEAKER CIRCUIT									
10120173 STAIR #2 SPEAKER GROUT				-	\vdash				
				_	\vdash				
01020175 LLEVEL TELECOM ROOM STROBE PANEL TROUBLE CC X				_	\vdash				
01020176					\vdash				
01020178 MR CL LVI, ELECTRIC RM STROBE PANEL TROUBLE CC X				+	\Box				
01020179 MR B3 LUX STORAGE RM STROBE PANEL TROUBLE CC X			CC	Х					j
01020191 01 LEVEL FSD TB1-5 CLOSED STATUS		<u> </u>							
01020181 B1 LEVEL F5D TB1-5 CLOSED STATUS				+	Ш				1
01020182 B1 LEVEL FSD TB1-15 CLOSED STATUS					\sqcup	Ш			l
01020183 81 LEVEL F3D B1-1, 2 D.1-132 DRELAY									1
01020184 B1 LEVEL FSD B1-3, 8 B1-19,20 RELAY					$\vdash \vdash \vdash$				
01020185 LLEVEL ELEV P1 & P2 DOOR RELEASE RELAY					\vdash			· · · · · · · · · · · · · · · · · · ·	
01020186 B1 LEVEL ELEV P1 & P2 DOOR RELASE RELAY					\vdash	\dashv			
01020187 B1 LEVEL STAIR 1 RISER VALVE TAMPER		<u> </u>			\vdash				
0102018B B1 LEVEL STAIR 2 RISER VALVE TAMPER					\vdash	Х	Х		
	01020188	B1 LEVEL STAIR 2 RISER VALVE TAMPER	VT	4		Х	Х	TESTED: 3/1/16 TURNS: < 2.5	
01020193	01020189	B1 LEVEL FIRE PUMP RM VALVE TAMPER	VŤ	Х		Х	X	TESTED: 3/1/16 TURNS: < 2.5	
01020194 B1 LEVĒL FAN ST TB1-4 'OFF' MODULE									
O1020196 LLEVEL BANK FAN HP-1 SHUTDOWN RELAY				\leftarrow	\square				ł
01020196					-				
01020251				-					
01020205		· · · · · · · · · · · · · · · · · · ·				\dashv			
01020244				-	-		-		
01020244 B1 LEVEL ELEV C4-C5 SHUNT POWER TROUBLE					-	-			
01020245				_		一			
01020247 ELEV F1 LOBBY FIREFIGHTER'S PHONE	01020245	B1 LEVEL C1-C3 S1-S2 SHUNT POWER TROUBLE	СТ					TESTED: 3/15/16	
01020248	01020246	ELEV P1-P2 LOBBY FIREFIGHTER'S PHONE	CC	X				TESTED: 3/4/16	
01020249				X					
01020251 CL LEVEL BLECTRIC RM SMOKE DETECTOR				_					l
01020252				_					I
01020253									
01020254 CL LEVEL MECH ROOM 2 SMOKE DETECTOR SD X X X TESTED: 2/24/16				_					Į.
01020255									
01020256				_					
01020257 CL LEVEL MECH ROOM 2 SMOKE DETECTOR SD X X X TESTED: 2/24/16					-				
01020258 CL LEVEL FAN ROOM 2 SMOKE DETECTOR SD X X X TESTED: 2/24/16 01020259 CL LEVEL FAN ROOM 2 SMOKE DETECTOR SD X X X TESTED: 2/24/16 01020260 CL LEVEL MECH ROOM 3 SMOKE DETECTOR SD X X X TESTED: 2/24/16 01020261 CL LEVEL MECH ROOM 3 SMOKE DETECTOR SD X X X TESTED: 2/24/16 01020262 CL LEVEL MECH ROOM 3 SMOKE DETECTOR SD X X X TESTED: 2/24/16 01020263 CL LEVEL MECH ROOM 3 SMOKE DETECTOR SD X X X TESTED: 2/24/16 01020264 CL LEVEL MECH ROOM 1 SMOKE DETECTOR SD X X X TESTED: 2/24/16 01020265 CL LEVEL MECH ROOM 1 SMOKE DETECTOR SD X X X TESTED: 2/24/16 01020266 CL LEVEL MECH ROOM 1 SMOKE DETECTOR SD X X X TESTED: 2/24/16 01020267 CL LEVEL FAN ROOM 1 SMOKE DETECTOR SD X X X TESTED: 2/24/16 01020268 CL LEVEL MECH ROOM 2 SMOKE DETECTOR SD X X X TESTED: 2/24/16 01020269 CL LEVEL MECH ROOM 2 SMOKE DETECTOR SD X X X TESTED: 2/24/16 01020269 CL LEVEL MECH ROOM 2 SMOKE DETECTOR SD X X X TESTED: 2/24/16 01020270 CL LEVEL FAN ROOM 1 SMOKE DETECTOR SD X X X TESTED: 2/24/16 01020271 CL LEVEL MECH ROOM 2 SMOKE DETECTOR SD X X X TESTED: 2/24/16 01020271 CL LEVEL MECH ROOM 2 SMOKE DETECTOR SD X X X TESTED: 2/24/16 01020272 CL LEVEL MECH ROOM 2 SMOKE DETECTOR SD X X X TESTED: 2/24/16 01020272 CL LEVEL MECH ROOM 2 SMOKE DETECTOR SD X X X TESTED: 2/24/16 01020272 CL LEVEL MECH ROOM 2 SMOKE DETECTOR SD X X X TESTED: 2/24/16 01020272 CL LEVEL MECH ROOM 2 SMOKE DETECTOR SD X X X TESTED: 2/24/16 01020272 CL LEVEL MECH ROOM 2 SMOKE DETECTOR SD X X X TESTED: 2/24/16 01020272 CL LEVEL MECH ROOM 2 SMOKE DETECTOR SD X X X TESTED: 2/24/16									
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01020272 CL LEVEL MECH ROOM 2 SMOKE DETECTOR SD X X X TESTED: 2/24/16				_	1		_		
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01020273 JCL LEVEL MECH ROOM 2 SMOKE DETECTOR SD X X TESTED: 2/24/16									
	01020273	CL LEVEL MECH ROOM 2 SMOKE DETECTOR	SD	_ X		Х	Х	TESTED: 2/24/16	

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	CL LEVEL ELEV S1 & S2 LOBBY SMOKE DETECTOR	SD	Τ Υ	<u> </u>	Ϋ́		TESTED: 3/16/16, RECALLED
	CL LEVEL CORRIDOR SMOKE DETECTOR	SD	X	<u> </u>	X		TESTED: 2/24/16
	CL LEVEL ELEV C4 & C5 LOBBY SMOKE DETECTOR	SD	X	<u> </u>	X		TESTED: 3/14/16, RECALLED
	CL LEVEL ELEV C1-C3 LOBBY SMOKE DETECTOR	SD	X	L_	X		TESTED: 3/16/16, RECALLED
01020279		DD	X	<u> </u>	X		TESTED: 3/7/16
	CL LEVEL FSD CL-56 FSD DUCT DETECTOR	DD	X	<u> </u>	X	X	TESTED: 3/7/16
01020281	CL LEVEL FSD CL-4 FSD DUCT DETECTOR	DD	X	<u> </u>	X	X	
01020282	CL LEVEL FSD CL-46 FSD DUCT DETECTOR	DD	X	L.	X	Х	TESTED: 3/7/16
01020283	CL LEVEL FSD CL-47 FSD DUCT DETECTOR	DD	X	Г	X	X	TESTED: 3/7/16
01020284	CL LEVEL FSD CL-33 FSD DUCT DETECTOR	DD	X		X	Х	TESTED: 3/7/16
01020285	CL LEVEL FSD CL-35 FSD DUCT DETECTOR	DD	X		Х	Х	TESTED: 3/7/16
01020286	CL LEVEL FSD CL-34 FSD DUCT DETECTOR	DD	X		Х	Х	TESTED: 3/7/16
01020287	CL LEVEL FSD CL-39 FSD DUCT DETECTOR	DD	X		Х	X	TESTED: 3/7/16
01020288	CL LEVEL FSD CL-40 FSD DUCT DETECTOR	DD	X		Х	Х	TESTED: 3/7/16
01020289	CL LEVEL FSD CL-41 FSD DUCT DETECTOR	DD	X		Х	X	TESTED: 3/7/16
01020290	CL LEVEL FSD CL-37 FSD DUCT DETECTOR	DD	X		Х	X	TESTED: 3/7/16
	CL LEVEL FSD CL-38 FSD DUCT DETECTOR	DD	X		X		TESTED: 3/7/16
	CL LEVEL FSD CL-50 FSD DUCT DETECTOR	DD	Х		Х		TESTED: 3/7/16
	CL LEVEL AC TCL-3 FAN DUCT DETECTOR	DD	X	\vdash	X		TESTED: 3/7/16
	CL LEVEL AC TCL-2 FAN DUCT DETECTOR	DD	X	_	X		TESTED: 3/7/16
	CL LEVEL SF TCL-1 FAN DUCT DETECTOR	DD	Î	-	X	_	TESTED: 3/7/16
	CL LEVEL AC TCL-1 FAN DUCT DETECTOR	DD	x		Ŷ		TESTED: 3/7/16
	CL LEVEL AC TCL-4 FAN DUCT DETECTOR	DD	Ŷ	 -	Ŷ		TESTED: 3/7/16
				<u> </u>			
	CL LEVEL SF TCL-2 FAN DUCT DETECTOR	DD	X	\vdash	Ϋ́		TESTED: 3/7/16
	CL LEVEL FSD CL-2 FSD DUCT DETECTOR	DD	X		X		TESTED: 3/7/16
	3FL ELECTRICAL ROOM SMOKE DETECTOR	SD	X		X		TESTED: 2/24/16
	3FL TRASH ROOM SMOKE DETECTOR	SD	Х		X		TESTED: 2/24/16
	3FL CORRIDOR AT #3J SMOKE DETECTOR	SD	X		Х		TESTED: 2/24/16
	3FL CORRIDOR AT #3H SMOKE DETECTOR	SD	X		X		TESTED: 2/24/16
01020305	3FL ELEVATOR S1 LOBBY SMOKE DETECTOR	SD	Х		Х		TESTED: 3/16/16, RECALLED
01020306	3FL CORRIDOR AT #3E SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/24/16
01020307	3FL CORRIDOR AT ELEV. SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/24/16
01020308	3FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 3/14/16, RECALLED
01020309	3FL CORRIDOR AT #3D SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/24/16
01020310	4FL ELECTRICAL ROOM SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/24/16
01020311	4FL TRASH ROOM SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/24/16
01020312	4FL CORRIDOR AT #4J SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/24/16
	4FL CORRIDOR AT #4H SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/24/16
	4FL ELEVATOR S1 LOBBY SMOKE DETECTOR	SD	X		Х		TESTED: 3/16/16, RECALLED
	4FL CORRIDOR AT #4E SMOKE DETECTOR	SD	Х		Х		TESTED: 2/24/16
	4FL CORRIDOR AT ELEV. SMOKE DETECTOR	SD	X		Х		TESTED: 2/24/16
	4FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR	SD	$\hat{\mathbf{x}}$		X		TESTED: 3/14/16, RECALLED
	4FL CORRIDOR AT #4D SMOKE DETECTOR	SD	X		$\hat{\mathbf{x}}$		TESTED: 2/24/16
	4FL CORRIDOR AT #4C SMOKE DETECTOR	SD	$\frac{\hat{x}}{x}$		X		TESTED: 2/24/16
	CL LEVEL FSD CL-52 FSD DUCT DETECTOR	DD	Ŷ		Ŷ		TESTED: 3/7/16
	CL LEVEL FSD CL-52 FSD DUCT DETECTOR	DD	Ŷ		â		TESTED: 3/7/16
	CL LEVEL AV CLOSET SMOKE DETECTOR	SD	x		ŵ		TESTED: 2/24/16
	ICL TOWER SCREENROOM SMOKE DETECTOR	SD	Ŷ	-	â		TESTED: 2/24/16
	<u> </u>				_		
	CL LEVEL FAN AC TCL-2 FAN DUCT DETECTOR	DD	X		X		TESTED: 3/7/16
	CL LEVEL FAN AC TCL-3 DUCT DETECTOR	DD	X		X		TESTED: 3/7/16
	CL LEVEL RES. EXH F-J FSD CONTROL RELAY	CR	X			_	TESTED: 2/24/16
	CL LEVEL AC TCL-3 SHUTDOWN RELAY	CR	Х		X		TESTED: 3/7/16
	CL LEVEL FSD CL-4, 56&TRASH RM RISER RELAY	CR	Х				TESTED: 2/24/16
	CL LEVEL FAN AC TCL-1 SHUTDOWN RELAY	CR	Х	I	Х		TESTED: 3/7/16
	CL LEVEL FAN AC TCL-4 SHUTDOWN RELAY	CR	Х		Х		TESTED: 3/7/16
	CL LEVEL EXHAUST FANS SHUTDOWN RELAY	CR	Х		Х		TESTED: 3/7/16
01020390	CL LEVEL RES. EXH A-D FSD CONTROL RELAY	CR	Х		I		TESTED: 2/24/16
01020391	CL LEVEL SUPPLY FSD STAIR 2 RISER RELAY	CR	Х	\Box			TESTED: 2/24/16
	CL LEVEL FAN AC TCL-2 POWER DISCONNECT	CT	Х				TESTED: 3/3/16
01020393	CL LEVEL FAN EF TCL24 POWER DISCONNECT	CT	Х				TESTED: 3/3/16
	CLEEVEL FAN EF TOLZ4 FOWER DISCONNECT		Х			ヿ	TESTED: 2/24/16
01020394	CL LEVEL FSD TCL-4 CLOSED STATUS	CT	_ ^ 1				
01020394 01020395		CT	â				TESTED: 3/3/16
01020394 01020395 01020397	CL LEVEL FSD TCL-4 CLOSED STATUS CL LEVEL FAN SF TCL-1 POWER DISCONNECT	CT	Х		\dashv		
01020394 01020395 01020397 01020398	CL LEVEL FSD TCL-4 CLOSED STATUS CL LEVEL FAN SF TCL-1 POWER DISCONNECT CL LEVEL FAN SF TCL-2 POWER DISCONNECT	CT CT	X X				TESTED: 3/3/16
01020394 01020395 01020397 01020398 01020399	CL LEVEL FSD TCL-4 CLOSED STATUS CL LEVEL FAN SF TCL-1 POWER DISCONNECT CL LEVEL FAN SF TCL-2 POWER DISCONNECT CL LEVEL FSD TCL-2 CLOSED STATUS	CT CT	X X X				TESTED: 3/3/16 TESTED: 2/24/16
01020394 01020395 01020397 01020398 01020399 01020401	CL LEVEL FSD TCL-4 CLOSED STATUS CL LEVEL FAN SF TCL-1 POWER DISCONNECT CL LEVEL FAN SF TCL-2 POWER DISCONNECT	CT CT	X X				TESTED: 3/3/16

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	CL LEVEL FAN EF TCL24 'ON' MODULE	СТ	X			<u> </u>	TESTED: 2/24/16
01020404	CL LEVEL FAN EF TCL24 'OFF' MODULE	CT	X			<u></u>	TESTED: 2/24/16
01020405	CL LEVEL FAN SF TCL-1 'ON' MODULE	CT	X			Т	TESTED: 2/24/16
01020406	CL LEVEL FAN SF TCL-1 'OFF' MODULE	CT	X			\vdash	TESTED: 2/24/16
01020407		CT	X	-	 	 	TESTED: 2/24/16
	CL LEVEL FAN SF TCL-2 'OFF' MODULE	CT	Î		-	┼──	TESTED: 2/24/16
					├—	┼	
	3FL SUPPLY FSD T3-1 CLOSED STATUS	CT	X	<u> </u>	L_	┞	TESTED: 2/24/16
	3FL SUPPLY FSD T3-2 CLOSED STATUS	CT	X			ـــــ	TESTED: 2/24/16
01020411	3FL EXHAUST FSD T3-3 CONTROL MODULE	CR	X	1 .		<u> </u>	TESTED: 2/24/16
01020412	4FL SUPPLY FSD T4-1 CLOSED STATUS	CT	X			T	TESTED: 2/24/16
01020413	4FL SUPPLY FSD T4-2 CLOSED STATUS	CT	X				TESTED: 2/24/16
	4FL EXHAUST FSD T4-3 CONTROL MODULE	CR	X	 	 	-	TESTED: 2/24/16
	<u> </u>	CT	Ιŵ	├	-	╂	TESTED: 2/24/16
	CL LEVEL FSD TCL-46 CLOSED STATUS				┡	₩	
	CL LEVEL FSD TCL-47 CLOSED STATUS	ст	X		_		TESTED: 2/24/16
	CL LEVEL FSD TCL-33 CLOSED STATUS	СТ	X			L	TESTED: 2/24/16
01020419	CL LVL EXH FSD TCL-3 CONTROL MODULE	CR	X		l		TESTED: 2/24/16
01020420	CL LEVEL ELEV P1 & P2 DOOR RELEASE RELAY	CR	X				TESTED: 3/10/16
	CL LEVEL AV CLOSET AV SHUTDOWN RELAY	CR	X			1	TESTED: 3/9/16
	CL LEVEL AV ROOM AV SHUTDOWN RELAY	CR	X	-		-	TESTED: 3/9/16
	<u> </u>			\vdash	<u> </u>	├	
	L LEVEL ELEV LOBBY DOOR HOLDER RELAY	CR	X	$\vdash \vdash$	<u> </u>	├	TESTED: 3/9/16
	CL LVL FSD TCL-67 CONTROL MODULE	CR	X			L	TESTED: 2/24/16
01020496	CL LEVEL ELEV C4-C5 DOOR HOLDER RELAY	CR	X			J	TESTED: 3/9/16
01020497	CL LEVEL FSD TCL-66, 30-41, 46-47, 51-57	CR	Х			Γ	TESTED: 2/24/16
	CL LEVEL ELEV DOOR DOOR HOLDER RELAY	CR	X			 	TESTED: 3/9/16
	4FL ELECTRIC ROOM DOOR HOLDER RELAY	CR	l x		—	1	TESTED: 3/8/16
				 	-,-	 	
	CL LEVEL STAIR 1 FSD CL-1 DUCT DET	DD	X		X		TESTED: 3/7/16
01030126	L LEVEL STAIR 1 WATERFLOW	WF	X		X	<u> </u>	TESTED: 2/29/16 TIME: < 90 SEC
01030127	L LEVEL STAIR 1 VALVE TAMPER	VT	X		X	X	TESTED: 3/1/16 TURNS: < 2.5
01030128	CL LEVEL STAIR 1 WATERFLOW	WF	X		X	X	TESTED: 2/29/16 TIME: < 90 SEC
01030129	CL LEVEL STAIR 1 VALVE TAMPER	VT	X		X	X	TESTED: 3/1/16 TURNS: < 2.5
	3FL STAIR 1 WATERFLOW	WF	X	\vdash	X		TESTED: 2/29/16 TIME: < 90 SEC
		VT	X		Х		TESTED: 3/1/16 TURNS: < 2.5
	4FL STAIR 1 WATERFLOW	WF	Х		Х		TESTED: 2/29/16 TIME: < 90 SEC
01030133	4FL STAIR 1 VALVE TAMPER	VT	X		Х	X	TESTED: 3/1/16 TURNS: < 2.5
01030134	5FL STAIR 1 WATERFLOW	WF	Х		Х	X	TESTED: 2/29/16 TIME: < 90 SEC
01030135	5FL STAIR 1 VALVE TAMPER	VT	Х		Х	X	TESTED: 3/1/16 TURNS: < 2.5
		WF	Х		X	_	TESTED: 3/1/16 TIME: < 90 SEC
01030137	6FL STAIR 1 VALVE TAMPER	VT	X	-	x		TESTED: 3/1/16 TURNS: < 2.5
				$\vdash \vdash$		_	
		WF	Х	Ш	Χ		TESTED: 2/29/16 TIME: < 90 SEC
	7FL STAIR 1 VALVE TAMPER	VT	Х		X		TESTED: 3/1/16 TURNS: < 2.5
01030140	8FL STAIR 1 WATERFLOW	WF	Х		Х	Х	TESTED: 2/29/16 TIME: < 90 SEC
01030141	8FL STAIR 1 VALVE TAMPER	VT	X		Х	Х	TESTED: 3/1/16 TURNS: < 2.5
		WF	Х	\Box	Х	_	TESTED: 2/29/16 TIME: < 90 SEC
		VT	x		\hat{x}		TESTED: 3/1/16 TURNS: < 2.5
	10FL STAIR 1 WATERFLOW	WF	Х		Х	_	TESTED: 2/29/16 TIME: < 90 SEC
01030145	10FL STAIR 1 VALVE TAMPER	VT	X		Х	X	TESTED: 3/1/16 TURNS: < 2.5
01030146	11FL STAIR 1 WATERFLOW	WF	Х		Х	Х	TESTED: 3/1/16 TIME: < 90 SEC
01030147	11FL STAIR 1 VALVE TAMPER	VT	Х		Х	Х	TESTED: 3/1/16 TURNS: < 2.5
01030148	12FL STAIR 1 WATERFLOW	WF	X		X		TESTED: 3/1/16 TIME: < 90 SEC
				-		1	TEOTED AVIVA TUDUO A S
	12FL STAIR 1 VALVE TAMPER	V1	I Č				TESTED: 3/1/16 TURNS: < 2.5
	14FL STAIR 1 WATERFLOW	WF	Х		Χ		TESTED: 3/1/16 TIME: < 90 SEC
	14FL STAIR 1 VALVE TAMPER	VT	X		X		TESTED: 3/1/16 TURNS: < 2.5
01030152	15FL STAIR 1 WATERFLOW	WF	Х		Х	X	TESTED: 2/29/16 TIME: < 90 SEC
01030153	15FL STAIR 1 VALVE TAMPER	VT	Х		Х	X	TESTED: 3/1/16 TURNS: < 2.5
	16FL STAIR 1 WATERFLOW	WF	X	-+	$\frac{\hat{X}}{X}$		TESTED: 3/1/16 TIME: < 90 SEC
	16FL STAIR 1 VALVE TAMPER	VT	X	\vdash	x		TESTED: 3/1/16 TURNS: < 2.5
	17FL STAIR 1 WATERFLOW	WF	X		X		TESTED: 3/1/16 TIME: < 90 SEC
01030157	17FL STAIR 1 VALVE TAMPER	VT	X		X		TESTED: 3/1/16 TURNS: < 2.5
		14/5	X		Х	Х	TESTED: 3/1/16 TIME: < 90 SEC
01030158	18FL STAIR 1 WATERFLOW	WF					
	18FL STAIR 1 WATERFLOW 18FL STAIR 1 VALVE TAMPER	VT	Х		Х	XI	TESTED: 3/1/16 TURNS: < 2.5
01030159	18FL STAIR 1 VALVE TAMPER	VT	$\overline{}$				
01030159 01030160	18FL STAIR 1 VALVE TAMPER 19FL STAIR 1 WATERFLOW	VT WF	Х		Х	Х	TESTED: 2/29/16 TIME: < 90 SEC
01030159 01030160 01030161	18FL STAIR 1 VALVE TAMPER 19FL STAIR 1 WATERFLOW 19FL STAIR 1 VALVE TAMPER	VT WF VT	X		X X	X	TESTED: 2/29/16 TIME: < 90 SEC TESTED: 3/1/16 TURNS: < 2.5
01030159 01030160 01030161 01030162	18FL STAIR 1 VALVE TAMPER 19FL STAIR 1 WATERFLOW 19FL STAIR 1 VALVE TAMPER 20FL STAIR 1 WATERFLOW	VT WF VT WF	X X X		X X X	X X X	TESTED: 2/29/16 TIME: < 90 SEC TESTED: 3/1/16 TURNS: < 2.5 TESTED: 2/29/16 TIME: < 90 SEC
01030159 01030160 01030161 01030162 01030163	18FL STAIR 1 VALVE TAMPER 19FL STAIR 1 WATERFLOW 19FL STAIR 1 VALVE TAMPER 20FL STAIR 1 WATERFLOW 20FL STAIR 1 VALVE TAMPER	VT WF VT WF VT	X X X X		X X	X X X	TESTED: 2/29/16 TIME: < 90 SEC TESTED: 3/1/16 TURNS: < 2.5 TESTED: 2/29/16 TIME: < 90 SEC TESTED: 3/1/16 TURNS: < 2.5
01030159 01030160 01030161 01030162 01030163	18FL STAIR 1 VALVE TAMPER 19FL STAIR 1 WATERFLOW 19FL STAIR 1 VALVE TAMPER 20FL STAIR 1 WATERFLOW	VT WF VT WF	X X X		X X X	X X X	TESTED: 2/29/16 TIME: < 90 SEC TESTED: 3/1/16 TURNS: < 2.5 TESTED: 2/29/16 TIME: < 90 SEC
01030159 01030160 01030161 01030162 01030163 01030164	18FL STAIR 1 VALVE TAMPER 19FL STAIR 1 WATERFLOW 19FL STAIR 1 VALVE TAMPER 20FL STAIR 1 WATERFLOW 20FL STAIR 1 VALVE TAMPER	VT WF VT WF VT	X X X X		X X X X	X X X X	TESTED: 2/29/16 TIME: < 90 SEC TESTED: 3/1/16 TURNS: < 2.5 TESTED: 2/29/16 TIME: < 90 SEC TESTED: 3/1/16 TURNS: < 2.5

	22FL STAIR 1 WATERFLOW	WF	Х		Х		TESTED: 3/1/16 TIME: < 90 SEC
	22FL STAIR 1 VALVE TAMPER 23FL STAIR 1 WATERFLOW	WF	X	_	X		TESTED: 3/1/16 TURNS: < 2.5 TESTED: 2/29/16 TIME: < 90 SEC
	23FL STAIR 1 VALVE TAMPER	VT	x		X		TESTED: 3/1/16 TURNS: < 2.5
01030170	24FL STAIR 1 WATERFLOW	WF	Х		X		TESTED: 2/29/16 TIME: < 90 SEC
	24FL STAIR 1 VALVE TAMPER 25FL STAIR 1 WATERFLOW	WF	X	-	X		TESTED: 3/1/16 TURNS: < 2.5 TESTED: 2/29/16 TIME: < 90 SEC
	25FL STAIR 1 WATERFLOW 25FL STAIR 1 VALVE TAMPER	VT	Ŷ	\vdash	Ŷ		TESTED: 3/1/16 TURNS: < 2.5
	26FL STAIR 1 WATERFLOW	WF	Х		Х	Х	TESTED: 2/29/16 TIME: < 90 SEC
	26FL STAIR 1 VALVE TAMPER	VT	X		X		TESTED: 3/1/16 TURNS: < 2.5
	27FL STAIR 1 WATERFLOW 27FL STAIR 1 VALVE TAMPER	WF VT	X		X		TESTED: 2/29/16 TIME: < 90 SEC TESTED: 3/1/16 TURNS: < 2.5
	28FL STAIR 1 WATERFLOW	WF	X	-	X		TESTED: 2/29/16 TIME: < 90 SEC
	28FL STAIR 1 VALVE TAMPER	VT	Х		Х		TESTED: 3/1/16 TURNS: < 2.5
	29FL STAIR 1 WATERFLOW	WF VT	X	_	X		TESTED: 2/29/16 TIME: < 90 SEC TESTED: 3/1/16 TURNS: < 2.5
	29FL STAIR 1 VALVE TAMPER 30FL STAIR 1 WATERFLOW	WF	X		X		TESTED: 2/29/16 TIME: < 90 SEC
	30FL STAIR 1 VALVE TAMPER	VT	Χ		Х		TESTED: 3/1/16 TURNS: < 2.5
	31FL STAIR 1 WATERFLOW	WF	X		X		TESTED: 2/29/16 TIME: < 90 SEC
	31FL STAIR 1 VALVE TAMPER 32FL STAIR 1 WATERFLOW	VT WF	X	_	X		TESTED: 3/1/16 TURNS: < 2.5 TESTED: 2/29/16 TIME: < 90 SEC
	32FL STAIR 1 VALVE TAMPER	VĪ	X		X		TESTED: 3/1/16 TURNS: < 2.5
	33FL STAIR 1 WATERFLOW	WF	Х		Х		TESTED: 2/29/16 TIME: < 90 SEC
	33FL STAIR 1 VALVE TAMPER	VT WF	Ŷ		X		TESTED: 3/1/16 TURNS: < 2.5 TESTED: 2/29/16 TIME: < 90 SEC
	34FL STAIR 1 WATERFLOW 34FL STAIR 1 VALVE TAMPER	VT	X		Ŷ		TESTED: 3/1/16 TURNS: < 2.5
	35FL STAIR 1 WATERFLOW	WF	X		X		TESTED: 2/29/16 TIME: < 90 SEC
	35FL STAIR 1 VALVE TAMPER	VT	X		X		TESTED: 3/1/16 TURNS: < 2.5
	36FL STAIR 1 WATERFLOW 36FL STAIR 1 VALVE TAMPER	WF VT	X		X		TESTED: 2/29/16 TIME: < 90 SEC TESTED: 3/1/16 TURNS: < 2.5
	37FL STAIR 1 WATERFLOW	WF	x		x		TESTED: 2/29/16 TIME: < 90 SEC
	37FL STAIR 1 VALVE TAMPER	VT	Х		Χ		TESTED: 3/1/16 TURNS: < 2.5
	38FL STAIR 1 WATERFLOW 38FL STAIR 1 VALVE TAMPER	WF VT	X		X		TESTED: 2/29/16 TIME: < 90 SEC TESTED: 3/1/16 TURNS: < 2.5
	39FL STAIR 1 WATERFLOW	WF	â		Ŷ		TESTED: 2/29/16 TIME: < 90 SEC
	39FL STAIR 1 VALVE TAMPER	VT	Х		Χ		TESTED: 3/1/16 TURNS: < 2.5
	40FL STAIR 1 WATERFLOW	WF	X	\Box	X		TESTED: 2/29/16 TIME: < 90 SEC
I	40FL STAIR 1 VALVE TAMPER 41FL STAIR 1 WATERFLOW	VT WF	X		X		TESTED: 3/1/16 TURNS: < 2.5 TESTED: 2/29/16 TIME: < 90 SEC
	41FL STAIR 1 VALVE TAMPER	VT	$\hat{\mathbf{x}}$		$\hat{\mathbf{x}}$		TESTED: 3/1/16 TURNS: < 2.5
	42FL STAIR 1 WATERFLOW	WF	Х		Х		TESTED: 2/29/16 TIME: < 90 SEC
	42FL STAIR 1 VALVE TAMPER 43FL STAIR 1 WATERFLOW	VT WF	X		Ϋ́		TESTED: 3/1/16 TURNS: < 2.5 TESTED: 3/1/16 TIME: < 90 SEC
	43FL STAIR 1 WATERFLOW 43FL STAIR 1 VALVE TAMPER	VT	X		X		TESTED: 3/1/16 TIME: < 90 SEC
	45FL STAIR 1 WATERFLOW	WF	Х		Χ	Х	TESTED: 3/1/16 TIME: < 90 SEC
	45FL STAIR 1 VALVE TAMPER	VT	X		Х		TESTED: 3/1/16 TURNS: < 2.5
	46FL STAIR 1 WATERFLOW 46FL STAIR 1 VALVE TAMPER	WF VT	X		X		TESTED: 2/29/16 TIME: < 90 SEC TESTED: 3/1/16 TURNS: < 2.5
	47FL STAIR 1 WATERFLOW	WF	X		$\hat{\mathbf{x}}$	_	TESTED: 2/29/16 TIME: < 90 SEC
01030215	47FL STAIR 1 VALVE TAMPER	VT	Х		Х	_	TESTED: 3/1/16 TURNS: < 2.5
	48FL STAIR 1 WATERFLOW	WF VT	X		X		TESTED: 2/29/16 TIME: < 90 SEC TESTED: 3/1/16 TURNS: < 2.5
	48FL STAIR 1 VALVE TAMPER 49FL STAIR 1 WATERFLOW	WF	â	-	X	_	TESTED: 2/29/16 TIME: < 90 SEC
	49FL STAIR 1 VALVE TAMPER	VT	Х		X		TESTED: 3/1/16 TURNS: < 2.5
	50FL STAIR 1 WATERFLOW	WF	Х		X		TESTED: 3/1/16 TIME: < 90 SEC
	50FL STAIR 1 VALVE TAMPER 51FL STAIR 1 WATERFLOW	VT WF	X		X		TESTED: 3/1/16 TURNS: < 2.5 TESTED: 2/29/16 TIME: < 90 SEC
	51FL STAIR I WATERFLOW 51FL STAIR 1 VALVE TAMPER	VI	â	\dashv	ŵ		TESTED: 2/29/16 TURNS: < 2.5
01030224	52FL STAIR 1 WATERFLOW	WF	Х		Х	Х	TESTED: 2/29/16 TIME: < 90 SEC
	52FL STAIR 1 VALVE TAMPER	\ <u>\</u>	X]	X		TESTED: 3/1/16 TURNS: < 2.5
	53FL STAIR 1 WATERFLOW 53FL STAIR 1 VALVE TAMPER	WF VT	X	\dashv	X		TESTED: 3/1/16 TIME: < 90 SEC TESTED: 3/1/16 TURNS: < 2.5
	54FL STAIR 1 WATERFLOW	WF	$\hat{\mathbf{x}}$		X		TESTED: 2/29/16 TIME: < 90 SEC
	54FL STAIR 1 VALVE TAMPER	VT	X	\Box	X		TESTED: 3/1/16 TURNS: < 2.5
01030230 01030231	55FL STAIR 1 WATERFLOW 55FL STAIR 1 VALVE TAMPER	WF VT	X		X		TESTED: 3/1/16 TIME: < 90 SEC TESTED: 3/1/16 TURNS: < 2.5
01030231	POLE O LAIR I AVEAE I VIANI, ELZ	VI	^			^_	120120. 0/1/10 10/100. > 2.0

04020220	TEGEL CTAID 4 WATERELOW	14/15	ΤV	T	V	V	TESTED: 3/1/16 TIME: < 00 CEC
	56FL STAIR 1 WATERFLOW	WF	Ϋ́	+			TESTED: 3/1/16 TIME: < 90 SEC
	56FL STAIR 1 WATERELOW	VT	Ϋ́	₩	Ϋ́		TESTED: 3/1/16 TURNS: < 2.5
	57FL STAIR 1 WATERFLOW	WF	Į.×	├			TESTED: 3/1/16 TIME: < 90 SEC
	57FL STAIR 1 VALVE TAMPER	VT	Ϋ́	<u> </u>	X		TESTED: 3/1/16 TURNS: < 2.5
	PH1 STAIR 1 WATERFLOW	WF	X	 	X		TESTED: 2/29/16 TIME: < 90 SEC
01030237	PH1 STAIR 1 VALVE TAMPER	VT	X		X		TESTED: 3/1/16 TURNS: < 2.5
	PH2 STAIR 1 WATERFLOW	WF	LX.	<u> </u>	X		TESTED; 3/1/16 TIME: < 90 SEC
	PH2 STAIR 1 VALVE TAMPER	VT	X	<u> </u>	X		TESTED: 3/1/16 TURNS: < 2.5
	GPH LEVEL STAIR 1 WATERFLOW	WF	X	<u> </u>	X	$\overline{}$	TESTED: 3/1/16 TIME: < 90 SEC
	GPH LEVEL STAIR 1 VALVE TAMPER	VT	X	<u> </u>	X		TESTED: 3/1/16 TURNS: < 2.5
01030242	59FL STAIR 1 WATERFLOW	WF	LX		X		TESTED: 3/1/16 TIME: < 90 SEC
	59FL STAIR 1 VALVE TAMPER	VT	X		X		TESTED: 3/1/16 TURNS: < 2.5
01030244	26FL STAIR 1 VALVE TAMPER	VT	X		X	Х	TESTED: 3/1/16 TURNS: < 2.5
01030245	CL LEVEL SUPPLY FSD STAIR 1 RISER RELAY	CR	Х				TESTED: 2/24/16
01030246	CL LEVEL FSD TCL-1 CLOSED STATUS	CT	LX				TESTED: 2/24/16
01030247	59FL STAIR 1 RELIEF DAMPER STATUS	CT	X				TESTED: 2/24/16
01030248	59FL STAIR 1 RELIEF FSD CONTROL RELAY	CR	X				TESTED: 2/24/16
01030249	B1 LEVEL STAIR 1 WATERFLOW	WF	X		Х	Х	TESTED: 2/29/16 TIME: < 90 SEC
01030250	B1 LEVEL STAIR 1 VALVE TAMPER	VT	X		Х	Х	TESTED: 3/1/16 TURNS: < 2.5
01030376	CL LEVEL STAIR 2 WATERFLOW	WF	X		Х	Х	TESTED: 2/29/16 TIME: < 90 SEC
01030377	CL LEVEL STAIR 2 VALVE TAMPER	VT	X		Х	Х	TESTED: 2/29/16 TURNS: < 2.5
01030378	3FL STAIR 2 WATERFLOW	WF	Х		X	Х	TESTED: 2/29/16 TIME: < 90 SEC
01030379	3FL STAIR 2 VALVE TAMPER	VT	X		Х	Х	TESTED: 2/29/16 TURNS: < 2.5
	4FL STAIR 2 WATERFLOW	WF	X		Х	_	TESTED: 2/29/16 TIME: < 90 SEC
	4FL STAIR 2 VALVE TAMPER	VT	X	\vdash	X		TESTED: 2/29/16 TURNS: < 2.5
	5FL STAIR 2 WATERFLOW	WF	X		$\hat{\mathbf{x}}$		TESTED: 2/29/16 TIME: < 90 SEC
	5FL STAIR 2 VALVE TAMPER	VT	x		x		TESTED: 2/29/16 TURNS: < 2.5
	6FL STAIR 2 WATERFLOW	WF		-	Ŷ		TESTED: 2/29/16 TIME: < 90 SEC
	6FL STAIR 2 VALVE TAMPER	VT	Ϋ́	-	_		TESTED: 2/29/16 TURNS: < 2.5
			X		-X		TESTED: 2/29/16 TORNS: < 2.5
	7FL STAIR 2 WATERFLOW	WF	X	-	X		
	7FL STAIR 2 VALVE TAMPER	VT V/F	X	-1	X		TESTED: 2/29/16 TURNS: < 2.5
	8FL STAIR 2 WATERFLOW	WF	X		_		TESTED: 2/29/16 TIME: < 90 SEC
	8FL STAIR 2 VALVE TAMPER	↓ VT	X		X		TESTED: 2/29/16 TURNS: < 2.5
	9FL STAIR 2 WATERFLOW	WF	X				TESTED: 2/29/16 TIME: < 90 SEC
	9FL STAIR 2 VALVE TAMPER	VT	X	\Box	Х		TESTED: 2/29/16 TURNS: < 2.5
	10FL STAIR 2 WATERFLOW	WF	X		X		TESTED: 2/29/16 TIME: < 90 SEC
	10FL STAIR 2 VALVE TAMPER	VT	X	Ш	X	_	TESTED: 2/29/16 TURNS: < 2.5
01030394	11FL STAIR 2 WATERFLOW	WF	X		X		TESTED: 2/29/16 TIME: < 90 SEC
	11FL STAIR 2 VALVE TAMPER	VT	Х		X		TESTED: 2/29/16 TURNS: < 2.5
01030396	12FL STAIR 2 WATERFLOW	WF	X	LI	X		TESTED: 2/29/16 TIME: < 90 SEC
01030397	12FL STAIR 2 VALVE TAMPER	VT	X		X	Х	TESTED: 2/29/16 TURNS: < 2.5
01030398	14FL STAIR 2 WATERFLOW	WF	X		Х	Х	TESTED: 2/29/16 TIME: < 90 SEC
01030399	14FL STAIR 2 VALVE TAMPER	VT	X	П	Х	Х	TESTED: 2/29/16 TURNS: < 2.5
01030400	15FL STAIR 2 WATERFLOW	WF	X		Х	X	TESTED: 2/29/16 TIME: < 90 SEC
	15FL STAIR 2 VALVE TAMPER	VT	X		Х		TESTED: 2/29/16 TURNS: < 2.5
	16FL STAIR 2 WATERFLOW	WF	Х	\Box	X		TESTED: 2/29/16 TIME: < 90 SEC
	16FL STAIR 2 VALVE TAMPER	VT	Х		\mathbf{x}		TESTED: 2/29/16 TURNS: < 2.5
	17FL STAIR 2 WATERFLOW	WF	X		$\overline{\mathbf{x}}$		TESTED: 2/29/16 TIME: < 90 SEC
	17FL STAIR 2 VALVE TAMPER	VT	X		$\hat{\mathbf{x}}$		TESTED: 2/29/16 TURNS: < 2.5
	18FL STAIR 2 WATERFLOW	WF	X	_			TESTED: 2/29/16 TIME: < 90 SEC
	18FL STAIR 2 VALVE TAMPER	VT	x	-			TESTED: 2/29/16 TURNS: < 2.5
	19FL STAIR 2 WATERFLOW	WF	x	-			TESTED: 2/29/16 TIME: < 90 SEC
	<u> </u>	VT		-			TESTED: 2/29/16 TURNS: < 2.5
	19FL STAIR 2 VALVE TAMPER		X	\vdash			TESTED: 3/1/16 TIME: < 90 SEC
	20FL STAIR 2 WATERFLOW	WF	X				
	20FL STAIR 2 VALVE TAMPER	VT	X	-	X	_	TESTED: 2/29/16 TURNS: < 2.5
	21FL STAIR 2 WATERFLOW	WF	X				TESTED: 2/29/16 TIME: < 90 SEC
	21FL STAIR 2 VALVE TAMPER	VT	X			$\overline{}$	TESTED: 2/29/16 TURNS: < 2.5
	22FL STAIR 2 WATERFLOW	WF	Х				TESTED: 2/29/16 TIME: < 90 SEC
01030415	22FL STAIR 2 VALVE TAMPER	VT	Х		X		TESTED: 2/29/16 TURNS: < 2.5
	LOCK OTHER CHATERES ON	WF	X				TESTED: 2/29/16 TIME: < 90 SEC
01030416	23FL STAIR 2 WATERFLOW				37	V	TECTED, 0/00/40 TUDNO, 40 F
	23FL STAIR 2 WATERFLOW 23FL STAIR 2 VALVE TAMPER	VT	Χ				TESTED: 2/29/16 TURNS: < 2.5
01030417	<u> </u>	VT WF	X			Х	TESTED: 2/29/16 TIME: < 90 SEC
01030417 01030418	23FL STAIR 2 VALVE TAMPER	VT			X	X	TESTED: 2/29/16 TIME: < 90 SEC TESTED: 2/29/16 TURNS: < 2.5
01030417 01030418 01030419	23FL STAIR 2 VALVE TAMPER 24FL STAIR 2 WATERFLOW	VT WF	Х		X	X	TESTED: 2/29/16 TIME: < 90 SEC
01030417 01030418 01030419 01030420	23FL STAIR 2 VALVE TAMPER 24FL STAIR 2 WATERFLOW 24FL STAIR 2 VALVE TAMPER	VT WF VT	X		X	X X X	TESTED: 2/29/16 TIME: < 90 SEC TESTED: 2/29/16 TURNS: < 2.5

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			1			
01030423	26FL STAIR 2 VALVE TAMPER	VT X	Тх	Гх	TESTED: 2/29/16 TURNS: < 2.5	
01030424	27FL STAIR 2 WATERFLOW	WF X	X	Х	TESTED: 2/29/16 TIME: < 90 SEC	
	27FL STAIR 2 VALVE TAMPER 28FL STAIR 2 WATERFLOW	VT X WF X			TESTED: 2/29/16 TURNS: < 2.5 TESTED: 2/29/16 TIME: < 90 SEC	
	28FL STAIR 2 VALVE TAMPER	VT X			TESTED: 2/29/16 TURNS: < 2.5	
	29FL STAIR 2 WATERFLOW	WF X			TESTED: 2/29/16 TIME: < 90 SEC	
	29FL STAIR 2 VALVE TAMPER 30FL STAIR 2 WATERFLOW	VT X			TESTED: 2/29/16 TURNS: < 2.5 TESTED: 2/29/16 TIME: < 90 SEC	
01030431	30FL STAIR 2 VALVE TAMPER	VT X	Х	Х	TESTED: 2/29/16 TURNS: < 2.5	
	31FL STAIR 2 WATERFLOW 31FL STAIR 2 VALVE TAMPER	WF X	$\frac{X}{X}$		TESTED: 2/29/16 TIME: < 90 SEC TESTED: 2/29/16 TURNS: < 2.5	
01030434	32FL STAIR 2 WATERFLOW	WF X	X	Х	TESTED: 2/29/16 TIME: < 90 SEC	
	32FL STAIR 2 VALVE TAMPER 33FL STAIR 2 WATERFLOW	VT X	X		TESTED: 2/29/16 TURNS: < 2.5 TESTED: 2/29/16 TIME: < 90 SEC	
	33FL STAIR 2 WATERFLOW 33FL STAIR 2 VALVE TAMPER	VT X	$\frac{1}{x}$		TESTED: 2/29/16 TURNS: < 2.5	
01030438	34FL STAIR 2 WATERFLOW	WF X	X		TESTED: 2/29/16 TIME: < 90 SEC	
	34FL STAIR 2 VALVE TAMPER 35FL STAIR 2 WATERFLOW	WF X	X		TESTED: 2/29/16 TURNS: < 2.5 TESTED: 2/29/16 TIME: < 90 SEC	
01030441	35FL STAIR 2 VALVE TAMPER	VT X	Х	Х	TESTED: 2/29/16 TURNS: < 2.5	
01030442	36FL STAIR 2 WATERFLOW 36FL STAIR 2 VALVE TAMPER	WF X	X		TESTED: 2/29/16 TIME: < 90 SEC TESTED: 2/29/16 TURNS: < 2.5	
	37FL STAIR 2 WATERFLOW	WF X	X		TESTED: 2/29/16 TIME: < 90 SEC	
	37FL STAIR 2 VALVE TAMPER	VT X	X		TESTED: 2/29/16 TURNS: < 2.5	
01030446	38FL STAIR 2 WATERFLOW 38FL STAIR 2 VALVE TAMPER	WF X	X		TESTED: 2/29/16 TIME: < 90 SEC TESTED: 2/29/16 TURNS: < 2.5	
01030448	39FL STAIR 2 WATERFLOW	WF X	X	Χ	TESTED: 2/29/16 TIME: < 90 SEC	
	39FL STAIR 2 VALVE TAMPER 40FL STAIR 2 WATERFLOW	VT X	X		TESTED: 2/29/16 TURNS: < 2.5 TESTED: 2/29/16 TIME: < 90 SEC	•
	40FL STAIR 2 WATERFLOW	VT X	^		TESTED: 2/29/16 TIME: < 90 SEC TESTED: 2/29/16 TURNS: < 2.5	
	41FL STAIR 2 WATERFLOW	WF X	X		TESTED: 2/29/16 TIME: < 90 SEC	
	41FL STAIR 2 VALVE TAMPER 42FL STAIR 2 WATERFLOW	VT X WF X	X		TESTED: 2/29/16 TURNS: < 2.5 TESTED: 2/29/16 TIME: < 90 SEC	
01030455	42FL STAIR 2 VALVE TAMPER	VT X	X	Χ	TESTED: 2/29/16 TURNS: < 2.5	
	43FL STAIR 2 WATERFLOW 43FL STAIR 2 VALVE TAMPER	WF X	X		TESTED: 2/29/16 TIME: < 90 SEC TESTED: 2/29/16 TURNS: < 2.5	
	45FL STAIR 2 WATERFLOW	WF X	X	Х	TESTED: 2/29/16 TIME: < 90 SEC	
	45FL STAIR 2 VALVE TAMPER 46FL STAIR 2 WATERFLOW	WF X	X		TESTED: 2/29/16 TURNS: < 2.5 TESTED: 2/29/16 TIME: < 90 SEC	
	46FL STAIR 2 WATER FLOW	VT X			TESTED: 2/29/16 TURNS: < 2.5	
	47FL STAIR 2 WATERFLOW	WF X		_	TESTED: 2/29/16 TIME: < 90 SEC	
	47FL STAIR 2 VALVE TAMPER 48FL STAIR 2 WATERFLOW	WF X	X		TESTED: 2/29/16 TURNS: < 2.5 TESTED: 2/29/16 TIME: < 90 SEC	
01030465	48FL STAIR 2 VALVE TAMPER	VT X	X	Х	TESTED: 2/29/16 TURNS: < 2.5	
	49FL STAIR 2 WATERFLOW 49FL STAIR 2 VALVE TAMPER	WF X	- X Y		TESTED: 2/29/16 TIME: < 90 SEC TESTED: 2/29/16 TURNS: < 2.5	
	50FL STAIR 2 WATERFLOW	WF X	$\frac{\hat{x}}{\hat{x}}$		TESTED: 2/29/16 TIME: < 90 SEC	
	50FL STAIR 2 VALVE TAMPER	VT X			TESTED: 2/29/16 TURNS: < 2.5	
	51FL STAIR 2 WATERFLOW 51FL STAIR 2 VALVE TAMPER	WF X	⊢ X X		TESTED: 2/29/16 TIME: < 90 SEC TESTED: 2/29/16 TURNS: < 2.5	
01030472	52FL STAIR 2 WATERFLOW	WF X	Х	Х	TESTED: 2/29/16 TIME: < 90 SEC	
	52FL STAIR 2 VALVE TAMPER 53FL STAIR 2 WATERFLOW	WF X	$\frac{X}{X}$		TESTED: 2/29/16 TURNS: < 2.5 TESTED: 2/29/16 TIME: < 90 SEC	
1030475	53FL STAIR 2 VALVE TAMPER	VT X	$\frac{\hat{x}}{\hat{x}}$	Х	TESTED: 2/29/16 TURNS: < 2.5	
	54FL STAIR 2 WATERFLOW 54FL STAIR 2 VALVE TAMPER	WF X	X		TESTED: 2/29/16 TIME: < 90 SEC TESTED: 2/29/16 TURNS: < 2.5	
	55FL STAIR 2 WATERFLOW	WF X	$-\frac{\lambda}{x}$	_	TESTED: 2/29/16 TIME: < 90 SEC	
1030479	55FL STAIR 2 VALVE TAMPER	VT X	X	_	TESTED: 2/29/16 TURNS: < 2.5	
	56FL STAIR 2 WATERFLOW 56FL STAIR 2 VALVE TAMPER	WF X	X		TESTED: 2/29/16 TIME: < 90 SEC TESTED: 2/29/16 TURNS: < 2.5	
1030482	57FL STAIR 2 WATERFLOW	WF X	Х	Х	TESTED: 2/29/16 TIME: < 90 SEC	
	57FL STAIR 2 VALVE TAMPER PH1 STAIR 2 WATERFLOW	VT X	X	_	TESTED: 2/29/16 TURNS: < 2.5 TESTED: 3/1/16 TIME: < 90 SEC	
	PH1 STAIR 2 WATERFLOW PH1 STAIR 2 VALVE TAMPER	VT X	X		TESTED: 2/29/16 TURNS: < 2.5	,
	PH2 STAIR 2 WATERFLOW	WF X	X		TESTED: 2/29/16 TIME: < 90 SEC	
	PH2 STAIR 2 VALVE TAMPER GPH LEVEL STAIR 2 WATERFLOW	WF X	X		TESTED: 2/29/16 TURNS: < 2.5 TESTED: 2/29/16 TIME: < 90 SEC	
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04000400	TODULEVEL OTALD OVALVE TAMBED	1	1.7	,	- 	· ·	TEOTED, 0/20/46 TUDNO, 10.5
	GPH LEVEL STAIR 2 VALVE TAMPER	VT	X	ļ	X		TESTED: 2/29/16 TURNS: < 2.5
	59FL STAIR 2 WATERFLOW	WF	X		X		TESTED: 2/29/16 TIME: < 90 SEC
	59FL STAIR 2 VALVE TAMPER	VT	X	_	Х	<u> </u>	TESTED: 2/29/16 TURNS: < 2.5
	59FL STAIR 2 RELIEF DAMPER STATUS	CT	X				TESTED: 2/24/16
01030493	59FL STAIR 2 RELIEF FSD CONTROL RELAY	CR	X				TESTED: 2/24/16
01030494	26FL STAIR 2 VALVE TAMPER	VT	X		Х	Х	TESTED: 2/29/16 TURNS: < 2.5
01030495	B1 LVL STAIR 2 WATERFLOW	WF	X		Х	Х	TESTED: 2/29/16 TIME: < 90 SEC
01030496	B1 LVL STAIR 2 VALVE TAMPER	VT	X		Х	Х	TESTED: 2/29/16 TURNS: < 2.5
	L LVL STAIR 2 WATERFLOW	WF	X		Х		TESTED: 2/29/16 TIME: < 90 SEC
	L LVL STAIR 2 VALVE TAMPER	VT	X		X		TESTED: 2/29/16 TURNS: < 2.5
	60FL STAIR 2 WATERFLOW	WF	x		X		TESTED: 2/29/16 TIME: < 90 SEC
	60FL STAIR 2 VALVE TAMPER	VT	x	-	x		TESTED: 2/29/16 TURNS: < 2.5
		CT		-	-		TESTED: 2/24/16
	CL LEVEL FSD CL-5 CLOSED STATUS		X				
	CL LEVEL FSD CL-5 CLOSED STATUS	CT	X				TESTED: 2/24/16
	CL LEVEL FSD CL-6 CLOSED STATUS	CT	X				TESTED: 2/24/16
	CL LEVEL FSD CL-7 CLOSED STATUS	CT	X				TESTED: 2/24/16
01040131	CL LEVEL FSD CL-7 CLOSED STATUS	CT	X				TESTED: 2/24/16
01040132	CL LEVEL FSD CL-8 CLOSED STATUS	CT	Х				TESTED: 2/24/16
01040133	CL LEVEL FSD CL-8 CLOSED STATUS	CT	X				TESTED: 2/24/16
01040134	3FL UNIT 3A FSD T3-5 CLOSED STATUS	СТ	Х				TESTED: 2/24/16
	3FL UNIT 3C FSD T3-7 CLOSED STATUS	СТ	X				TESTED: 2/24/16
	3FL UNIT 3D FSD T3-8 CLOSED STATUS	CT	X	\vdash			TESTED: 2/24/16
	4FL UNIT 4A FSD T4-5 CLOSED STATUS	CT	x	-			TESTED: 2/24/16
	4FL UNIT 4B FSD T4-6 CLOSED STATUS	CT	Ŷ	Н			TESTED: 2/24/16
		CT	Ŷ	\vdash			
	4FL UNIT 4C FSD T4-7 CLOSED STATUS			\vdash			TESTED: 2/24/16
	4FL UNIT 4D FSD T4-8 CLOSED STATUS	CT	X				TESTED: 2/24/16
	5FL UNIT 5A FSD T5-5 CLOSED STATUS	CT	X	L			TESTED: 2/24/16
	5FL UNIT 5B FSD T5-6 CLOSED STATUS	CT	Х	Ш			TESTED: 2/24/16
	5FL UNIT 5C FSD T5-7 CLOSED STATUS	CT	X				TESTED: 2/24/16
01040145	5FL UNIT 5D FSD T5-8 CLOSED STATUS	CT	Х				TESTED: 2/24/16
01040146	6FL UNIT 6A FSD T6-5 CLOSED STATUS	CT	Х				TESTED: 2/24/16
01040147	6FL UNIT 6B FSD T6-6 CLOSED STATUS	CT	X				TESTED: 2/24/16
01040148	6FL UNIT 6C FSD T6-7 CLOSED STATUS	CT	X				TESTED: 2/24/16
	6FL UNIT 6D FSD T6-8 CLOSED STATUS	CT	X	\vdash	$\neg \uparrow$	_	TESTED: 2/24/16
	7FL UNIT 7A FSD T7-5 CLOSED STATUS	CT	Î	\vdash			TESTED: 2/24/16
	7FL UNIT 7B FSD T7-6 CLOSED STATUS	CT	X				TESTED: 2/24/16
	7FL UNIT 7C FSD T7-7 CLOSED STATUS	CT	x	\vdash			TESTED: 2/24/16
		CT					TESTED: 2/24/16
	7FL UNIT 7D FSD T7-8 CLOSED STATUS		X				
	8FL UNIT 8A FSD T8-5 CLOSED STATUS	CT	X	\sqcup	_		TESTED: 2/24/16
	8FL UNIT 7B FSD T8-6 CLOSED STATUS	СТ	Х				TESTED: 2/24/16
	8FL UNIT 8C FSD T8-7 CLOSED STATUS	CT	X				TESTED: 2/24/16
01040157	8FL UNIT 8D FSD T8-8 CLOSED STATUS	CT	Х				TESTED: 2/24/16
01040158	9FL UNIT 9A FSD T9-5 CLOSED STATUS	CT	Х				TESTED: 2/24/16
01040160	9FL UNIT 9C FSD T9-7 CLOSED STATUS	CT	Х				TESTED: 2/24/16
01040161	9FL UNIT 9D FSD T9-8 CLOSED STATUS	СТ	Х			\neg	TESTED: 2/24/16
01040162	10FL #10A FSD T10-5 CLOSED STATUS	CT	Х			\neg	TESTED: 2/24/16
	10FL #10C FSD T10-7 CLOSED STATUS	СТ	X		一	-	TESTED: 2/24/16
	10FL #10D FSD T10-8 CLOSED STATUS	CT	X	-	\dashv		TESTED: 2/24/16
	11FL #11A FSD T11-5 CLOSED STATUS	CT	X				TESTED: 2/24/16
	11FL #11C FSD T11-7 CLOSED STATUS	CT	×				TESTED: 2/24/16
	11FL #11D FSD T11-8 CLOSED STATUS	. CT	X			_	TESTED: 2/24/16
	12FL #12A FSD T12-5 CLOSED STATUS	CT	X				TESTED: 2/24/16
	12FL #12B FSD T12-6 CLOSED STATUS	CT	Х				TESTED: 2/24/16
01040172	12FL #12C FSD T12-7 CLOSED STATUS	CT	Х				TESTED: 2/24/16
01040173	12FL #12D FSD T12-8 CLOSED STATUS	CT	Х				TESTED: 2/24/16
01040174	14FL #14A FSD T14-5 CLOSED STATUS	CT	Х				TESTED: 2/24/16
	14FL #14B FSD T14-6 CLOSED STATUS	CT	Х				TESTED: 2/24/16
	14FL #14C FSD T14-7 CLOSED STATUS	CT	х				TESTED: 2/24/16
	14FL #14D FSD T14-8 CLOSED STATUS	CT	X	1	-+		TESTED: 2/24/16
	15FL #15A FSD T15-5 CLOSED STATUS	CT	ŵ		-+		TESTED: 2/24/16
							TESTED: 2/24/16
	15FL #15B FSD T15-6 CLOSED STATUS	CT ·	X				
04040400	15FL #15C FSD T15-7 CLOSED STATUS	CT	X				TESTED: 2/24/16
		OT I	ΧΙ			ľ	TESTED: 2/24/16
01040181	15FL #15D FSD T15-8 CLOSED STATUS	CT					
01040181 01040182	16FL #16A FSD T16-5 CLOSED STATUS	СТ	Х				TESTED: 2/24/16
01040181 01040182							

			_			
01040185	16FL #16D FSD T16-8 CLOSED STATUS	СТ	X			TESTED: 2/24/16
01040186	17FL #17A FSD T17-5 CLOSED STATUS	СТ	X			TESTED: 2/24/16
01040187	17FL #17B FSD T17-6 CLOSED STATUS	CT	X			TESTED: 2/24/16
01040188	17FL #17C FSD T17-7 CLOSED STATUS	СТ	X			TESTED: 2/24/16
01040189	17FL #17D FSD T17-8 CLOSED STATUS	CT	Х			TESTED: 2/24/16
01040190	18FL #18A FSD T18-5 CLOSED STATUS	CT	Х		·	TESTED: 2/24/16
01040191	18FL #18B FSD T18-6 CLOSED STATUS	CT	Х			TESTED: 2/24/16
01040192	18FL #18C FSD T18-7 CLOSED STATUS	CT	X			TESTED: 2/24/16
01040193	18FL #18D FSD T18-8 CLOSED STATUS	CT	X		_	TESTED: 2/24/16
	19FL #19A FSD T19-5 CLOSED STATUS	СТ	X			TESTED: 2/24/16
	19FL #19C FSD T19-7 CLOSED STATUS	CT	X			TESTED: 2/24/16
	19FL #19D FSD T19-8 CLOSED STATUS	CT	x			TESTED: 2/24/16
	20FL #20A FSD T20-5 CLOSED STATUS	CT	x	-+		TESTED: 2/24/16
	20FL #20C FSD T20-7 CLOSED STATUS	CT	X			TESTED: 2/24/16
	20FL #20D FSD T20-8 CLOSED STATUS	CT	$\frac{\hat{x}}{x}$			TESTED: 2/24/16
	21FL #21A FSD T21-5 CLOSED STATUS	CT	Ŷ		+	TESTED: 2/24/16
	21FL #21C FSD T21-7 CLOSED STATUS	CT CT	$\hat{\mathbf{x}}$			TESTED: 2/24/16
	21FL #21D FSD T21-8 CLOSED STATUS	CT	$\hat{\mathbf{x}}$			TESTED: 2/24/16
	22FL #22A FSD T22-5 CLOSED STATUS	CT	ŵ	-+-	-	TESTED: 2/24/16
	22FL #22B FSD T22-6 CLOSED STATUS	CT	Ŷ			TESTED: 2/24/16
	22FL #22C FSD T22-6 CLOSED STATUS	CT	ŵ	-+	-	TESTED: 2/24/16
	22FL #22C FSD 122-7 CLOSED STATUS	CT				TESTED: 2/24/16
	23FL #23A FSD T22-8 CLOSED STATUS		Ϋ́	-+		
		CT	X	-+		TESTED: 2/24/16
	23FL #23B FSD T23-6 CLOSED STATUS	CT	X		\dashv	TESTED: 2/24/16
	23FL #23C FSD T23-7 CLOSED STATUS	CT	X			TESTED: 2/24/16
	23FL #23D FSD T23-8 CLOSED STATUS	CT	X			TESTED: 2/24/16
	24FL #24A FSD T24-5 CLOSED STATUS	CT	X			TESTED: 2/24/16
	24FL #24B FSD T24-6 CLOSED STATUS	CT	X			TESTED: 2/24/16
	24FL #24C FSD T24-7 CLOSED STATUS	СТ	X			TESTED: 2/24/16
	24FL #24D FSD T24-8 CLOSED STATUS	CT	X			TESTED: 2/24/16
	25FL #25A FSD T25-5 CLOSED STATUS	CT	Х			TESTED: 2/24/16
01040219	25FL #25B FSD T25-6 CLOSED STATUS	CT	Х			TESTED: 2/24/16
01040220	25FL #25C FSD T25-7 CLOSED STATUS	CT	X			TESTED: 2/24/16
01040221	25FL #25D FSD T25-8 CLOSED STATUS	CT	X			TESTED: 2/24/16
01040376	CL LEVEL FSD CL-9 CLOSED STATUS	CT	X			TESTED: 2/24/16
01040377	CL LEVEL FSD CL-9 CLOSED STATUS	CT	Х			TESTED: 2/24/16
01040378	CL LEVEL FSD CL-10 CLOSED STATUS	СТ	X			TESTED: 2/24/16
01040380	CL LEVEL FSD CL-11 CLOSED STATUS	CT	X			TESTED: 2/24/16
01040381	CL LEVEL FSD CL-11 CLOSED STATUS	CT	X			TESTED: 2/24/16
	CL LEVEL FSD CL-12 CLOSED STATUS	CT	X			TESTED: 2/24/16
	CL LEVEL FSD CL-13 CLOSED STATUS	СТ	$\hat{\mathbf{x}}$		-	TESTED: 2/24/16
	3FL UNIT 3E FSD T3-9 CLOSED STATUS	CT	X		+	TESTED: 2/24/16
	3FL UNIT 3G FSD T3-10 CLOSED STATUS	CT	$\hat{\mathbf{x}}$			TESTED: 2/24/16
	3FL UNIT 3F FSD T3-11 CLOSED STATUS	CT	χ			TESTED: 2/24/16
	3FL UNIT 3J FSD T3-12 CLOSED STATUS	CT	Ŷ			TESTED: 2/24/16
	3FL UNIT 3H FSD T3-13 CLOSED STATUS	CT	Ĥ	-+		TESTED: 2/24/16
	4FL UNIT 4E FSD T4-9 CLOSED STATUS	CT	٠	-+	+	TESTED: 2/24/16
	4FL UNIT 4G FSD T4-10 CLOSED STATUS	CT			+	TESTED: 2/24/16
			X			
	4FL UNIT 4F FSD T4-11 CLOSED STATUS	CT	Ϋ́			TESTED: 2/24/16
	4FL UNIT 4J FSD T4-12 CLOSED STATUS		X	$-\!\!\!+$		TESTED: 2/24/16
	4FL UNIT 4H FSD T4-13 CLOSED STATUS	CT	X			TESTED: 2/24/16
	5FL UNIT 5E FSD T5-9 CLOSED STATUS	CT	Х	\bot		TESTED: 2/24/16
	5FL UNIT 5G FSD T5-10 CLOSED STATUS	CT	X.			TESTED: 2/24/16
	5FL UNIT 5F FSD T5-11 CLOSED STATUS	CT	Х			TESTED: 2/24/16
	5FL UNIT 5J FSD T5-12 CLOSED STATUS	CT	X			TESTED: 2/24/16
	5FL UNIT 5H FSD T5-13 CLOSED STATUS	CT	Х		\rightarrow	TESTED: 2/24/16
	6FL UNIT 6E FSD T6-9 CLOSED STATUS	CT	Х	$\Box \mathbf{L}$		TESTED: 2/24/16
01040402	6FL UNIT 6G FSD T6-10 CLOSED STATUS	CT	Х			TESTED: 2/24/16
01040403	6FL UNIT 6F FSD T6-11 CLOSED STATUS	CT	X		$\neg \neg$	TESTED: 2/24/16
01040404	6FL UNIT 6J FSD T6-12 CLOSED STATUS	CT	X			TESTED: 2/24/16
	6FL UNIT 6H FSD T6-13 CLOSED STATUS	CT	ΧÌ			TESTED: 2/24/16
	7FL UNIT 7E FSD T7-9 CLOSED STATUS	CT	χ	\dashv		TESTED: 2/24/16
	7FL UNIT 7G FSD T7-10 CLOSED STATUS	CT	χÌ			TESTED: 2/24/16
	7FL UNIT 7F FSD T7-11 CLOSED STATUS	CT	Ĥ	-+-		TESTED: 2/24/16
	7FL UNIT 7J FSD T7-12 CLOSED STATUS	CT	Ĥ			TESTED: 2/24/16
<u> 0104∩4∩¤ ⊟</u>		- U I	\sim 1	i	(,,,,
	7FL UNIT 7H FSD T7-13 CLOSED STATUS	CT	X		1	TESTED: 2/24/16

O1040411 SFL UNIT BE FSD T8-9 CLOSED STATUS						
DITMONATIS SEL LUNIT SEP FED TR-11 CLOSED STATUS	01040411	8FL UNIT 8E FSD T8-9 CLOSED STATUS	CT	LX_		TESTED: 2/24/16
01040441 BFL UNTI B FIST DR-12 (LOSED STATUS CT X	01040412	8FL UNIT 8G FSD T8-10 CLOSED STATUS	CT	X		TESTED: 2/24/16
01040441 BFL UNTI B FIST DR-12 (LOSED STATUS CT X	01040413	8FL UNIT 8F FSD T8-11 CLOSED STATUS	СТ	Īχ		TESTED: 2/24/16
01040415 BFL UNIT BEFSD T9-9 CLOSED STATUS		***************************************			 	
01040416 SPL UNIT 96 FSD T3-9 CLOSED STATUS		·				
OTIONA117 SPIL UNITY 9F SD T3-11 CLOSED STATUS						
01040418 DFL UNIT 9F FSD T3-11 (LOSED STATUS						
OTIONA19 SPT. UNIT SI PSD T9-12 CLOSED STATUS	01040417	9FL UNIT 9G FSD T9-10 CLOSED STATUS	CT	X		TESTED: 2/24/16
OFFICIAL STREET OFFICIAL S	01040418	9FL UNIT 9F FSD T9-11 CLOSED STATUS	CT	X		TESTED: 2/24/16
OFFICIAL STREET OFFICIAL S	01040419	19EL UNIT 9.1 ESD T9-12 CLOSED STATUS	СТ			TESTED: 2/24/16
OTHER OFFICE FRO TIOP CLOSED STATUS CT X TESTED: 224/16						
OFFICE O				_		
OTHER FOR TIGHT CLOSED STATUS				_		
O1040424 19FL #10L FSD T10-12 CLOSED STATUS			CT	X		
O1040425 INFL #10H FSD T10-13 CLOSED STATUS	01040423	10FL #10F FSD T10-11 CLOSED STATUS	CT	X		TESTED: 2/24/16
O1040425 INFL #10H FSD T10-13 CLOSED STATUS	01040424	10FL #10J FSD T10-12 CLOSED STATUS	СТ	Х		TESTED: 2/24/16
01040426	01040425	10FL #10H ESD T10-13 CLOSED STATUS	CT			TESTED: 2/24/16
01040427 11FL #11F 67SD 711-11 CLOSED STATUS						
01040428 11FL #11F FSD T11-11 CLOSED STATUS						
01040429 11FL #11J FSD T11-12 CLOSED STATUS			-		 	
01040430 11FL #11H FSD T11-13 CLOSED STATUS						
101040431 12FL #12F FSD T12-10 CLOSED STATUS	01040429	11FL #11J FSD T11-12 CLOSED STATUS	CT	X.		TESTED: 2/24/16
101040431 12FL #12F FSD T12-10 CLOSED STATUS	01040430	11FL #11H FSD T11-13 CLOSED STATUS	CT	X		TESTED: 2/24/16
O1040432 12FL #12F FSD T12-10 CLOSED STATUS						
01040433 12FL #12J FSD T12-12 CLOSED STATUS						
O1040435 12FL #12J FSD T12-12 CLOSED STATUS				_		
01040435 12FL #12H FSD T14-9 CLOSED STATUS				-		
01040436	01040434	12FL #12J FSD T12-12 CLOSED STATUS	CT	X		TESTED: 2/24/16
01040436	01040435	12FL #12H FSD T12-13 CLOSED STATUS	CT	X		TESTED: 2/24/16
01040437	01040436	14FL #14F FSD T14-9 CLOSED STATUS	CT	X		TESTED: 2/24/16
01040438						TESTED: 2/24/16
01040439						
01040440				_		
01040441 15FL #15E FSD T15-9 CLOSED STATUS						
01040442						
01040443	01040441	15FL #15E FSD T15-9 CLOSED STATUS	CT	X		TESTED: 2/24/16
01040444 15FL #15J FSD T15-12 CLOSED STATUS	01040442	15FL #15G FSD T15-10 CLOSED STATUS	CT	X		TESTED: 2/24/16
01040444 15FL #15J FSD T15-12 CLOSED STATUS	01040443	15FL #15F FSD T15-11 CLOSED STATUS	СТ	Χ		TESTED: 2/24/16
01040445			CT			TESTED: 2/24/16
01040446						
01040447 16FL #16G FSD T16-10 CLOSED STATUS				_		
01040448						
01040449			CT	Х		
01040450	01040448	16FL #16F FSD T16-11 CLOSED STATUS	CT	X		TESTED: 2/24/16
01040451 17FL #17E FSD T17-9 CLOSED STATUS	01040449	16FL #16J FSD T16-12 CLOSED STATUS	CT	Х		TESTED: 2/24/16
01040451 17FL #17E FSD T17-9 CLOSED STATUS	01040450	16FL #16H FSD T16-13 CLOSED STATUS	CT	X		TESTED: 2/24/16
01040452				_		
01040453						
01040454 17FL #17J FSD T17-12 CLOSED STATUS CT X TESTED: 2/24/16 01040455 17FL #17H FSD T17-13 CLOSED STATUS CT X TESTED: 2/24/16 01040456 18FL #18E FSD T18-9 CLOSED STATUS CT X TESTED: 2/24/16 01040457 18FL #18G FSD T18-10 CLOSED STATUS CT X TESTED: 2/24/16 01040458 18FL #18F FSD T18-11 CLOSED STATUS CT X TESTED: 2/24/16 01040459 18FL #18B FSD T18-12 CLOSED STATUS CT X TESTED: 2/24/16 01040469 18FL #18H FSD T18-13 CLOSED STATUS CT X TESTED: 2/24/16 01040460 18FL #19F FSD T19-9 CLOSED STATUS CT X TESTED: 2/24/16 01040461 19FL #19F FSD T19-10 CLOSED STATUS CT X TESTED: 2/24/16 01040462 19FL #19F FSD T19-11 CLOSED STATUS CT X TESTED: 2/24/16 01040463 19FL #19J FSD T19-13 CLOSED STATUS CT X TESTED: 2/24/16 01040463 19FL #19H FSD T19-13 CLOSED STATUS CT X TESTED: 2/24/16 <						
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01040457 18FL #18G FSD T18-10 CLOSED STATUS CT X TESTED: 2/24/16 01040458 18FL #18F FSD T18-11 CLOSED STATUS CT X TESTED: 2/24/16 01040459 18FL #18J FSD T18-12 CLOSED STATUS CT X TESTED: 2/24/16 01040460 18FL #18H FSD T18-13 CLOSED STATUS CT X TESTED: 2/24/16 01040461 19FL #19E FSD T19-9 CLOSED STATUS CT X TESTED: 2/24/16 01040462 19FL #19G FSD T19-10 CLOSED STATUS CT X TESTED: 2/24/16 01040463 19FL #19F FSD T19-11 CLOSED STATUS CT X TESTED: 2/24/16 01040463 19FL #19J FSD T19-12 CLOSED STATUS CT X TESTED: 2/24/16 01040464 19FL #19H FSD T19-13 CLOSED STATUS CT X TESTED: 2/24/16 01040465 19FL #19H FSD T19-13 CLOSED STATUS CT X TESTED: 2/24/16 01040466 20FL #20E FSD T20-9 CLOSED STATUS CT X TESTED: 2/24/16 01040467 20FL #20G FSD T20-11 CLOSED STATUS CT X TESTED: 2/24/16 <	01040456	18FL #18E FSD T18-9 CLOSED STATUS	CT	X		TESTED: 2/24/16
01040458 18FL #18F FSD T18-11 CLOSED STATUS CT X TESTED: 2/24/16 01040459 18FL #18J FSD T18-12 CLOSED STATUS CT X TESTED: 2/24/16 01040460 18FL #18H FSD T18-13 CLOSED STATUS CT X TESTED: 2/24/16 01040461 19FL #19F FSD T19-9 CLOSED STATUS CT X TESTED: 2/24/16 01040462 19FL #19G FSD T19-10 CLOSED STATUS CT X TESTED: 2/24/16 01040463 19FL #19F FSD T19-11 CLOSED STATUS CT X TESTED: 2/24/16 01040464 19FL #19J FSD T19-12 CLOSED STATUS CT X TESTED: 2/24/16 01040465 19FL #19H FSD T19-13 CLOSED STATUS CT X TESTED: 2/24/16 01040465 19FL #19H FSD T19-13 CLOSED STATUS CT X TESTED: 2/24/16 01040466 20FL #20E FSD T20-9 CLOSED STATUS CT X TESTED: 2/24/16 01040467 20FL #20F FSD T20-11 CLOSED STATUS CT X TESTED: 2/24/16 01040469 20FL #20H FSD T20-12 CLOSED STATUS CT X TESTED: 2/24/16 <		4		_		
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01040463 19FL #19F FSD T19-11 CLOSED STATUS CT X TESTED: 2/24/16 01040464 19FL #19J FSD T19-12 CLOSED STATUS CT X TESTED: 2/24/16 01040465 19FL #19H FSD T19-13 CLOSED STATUS CT X TESTED: 2/24/16 01040466 20FL #20E FSD T20-9 CLOSED STATUS CT X TESTED: 2/24/16 01040467 20FL #20G FSD T20-10 CLOSED STATUS CT X TESTED: 2/24/16 01040469 20FL #20J FSD T20-11 CLOSED STATUS CT X TESTED: 2/24/16 01040469 20FL #20J FSD T20-12 CLOSED STATUS CT X TESTED: 2/24/16 01040470 20FL #20H FSD T20-13 CLOSED STATUS CT X TESTED: 2/24/16 01040471 21FL #21E FSD T21-9 CLOSED STATUS CT X TESTED: 2/24/16 01040472 21FL #21G FSD T21-10 CLOSED STATUS CT X TESTED: 2/24/16 01040473 21FL #21F FSD T21-11 CLOSED STATUS CT X TESTED: 2/24/16 01040474 21FL #21J FSD T21-12 CLOSED STATUS CT X TESTED: 2/24/16	01040462	19FL #19G FSD T19-10 CLOSED STATUS	CT	X		TESTED: 2/24/16
01040464 19FL #19J FSD T19-12 CLOSED STATUS CT X TESTED: 2/24/16 01040465 19FL #19H FSD T19-13 CLOSED STATUS CT X TESTED: 2/24/16 01040466 20FL #20E FSD T20-9 CLOSED STATUS CT X TESTED: 2/24/16 01040467 20FL #20F FSD T20-10 CLOSED STATUS CT X TESTED: 2/24/16 01040468 20FL #20F FSD T20-11 CLOSED STATUS CT X TESTED: 2/24/16 01040469 20FL #20J FSD T20-12 CLOSED STATUS CT X TESTED: 2/24/16 01040470 20FL #20H FSD T20-13 CLOSED STATUS CT X TESTED: 2/24/16 01040471 21FL #21E FSD T21-9 CLOSED STATUS CT X TESTED: 2/24/16 01040472 21FL #21G FSD T21-10 CLOSED STATUS CT X TESTED: 2/24/16 01040473 21FL #21F FSD T21-11 CLOSED STATUS CT X TESTED: 2/24/16 01040474 21FL #21J FSD T21-12 CLOSED STATUS CT X TESTED: 2/24/16				_		
01040465 19FL #19H FSD T19-13 CLOSED STATUS CT X TESTED: 2/24/16 01040466 20FL #20E FSD T20-9 CLOSED STATUS CT X TESTED: 2/24/16 01040467 20FL #20G FSD T20-10 CLOSED STATUS CT X TESTED: 2/24/16 01040468 20FL #20F FSD T20-11 CLOSED STATUS CT X TESTED: 2/24/16 01040469 20FL #20J FSD T20-12 CLOSED STATUS CT X TESTED: 2/24/16 01040460 20FL #20H FSD T20-13 CLOSED STATUS CT X TESTED: 2/24/16 01040470 20FL #21F FSD T21-9 CLOSED STATUS CT X TESTED: 2/24/16 01040471 21FL #21E FSD T21-10 CLOSED STATUS CT X TESTED: 2/24/16 01040472 21FL #21F FSD T21-11 CLOSED STATUS CT X TESTED: 2/24/16 01040473 21FL #21F FSD T21-11 CLOSED STATUS CT X TESTED: 2/24/16 01040474 21FL #21J FSD T21-12 CLOSED STATUS CT X TESTED: 2/24/16						
01040466 20FL #20E FSD T20-9 CLOSED STATUS CT X TESTED: 2/24/16 01040467 20FL #20G FSD T20-10 CLOSED STATUS CT X TESTED: 2/24/16 01040468 20FL #20F FSD T20-11 CLOSED STATUS CT X TESTED: 2/24/16 01040469 20FL #20J FSD T20-12 CLOSED STATUS CT X TESTED: 2/24/16 01040470 20FL #20H FSD T20-13 CLOSED STATUS CT X TESTED: 2/24/16 01040471 21FL #21E FSD T21-9 CLOSED STATUS CT X TESTED: 2/24/16 01040472 21FL #21G FSD T21-10 CLOSED STATUS CT X TESTED: 2/24/16 01040473 21FL #21F FSD T21-11 CLOSED STATUS CT X TESTED: 2/24/16 01040474 21FL #21J FSD T21-12 CLOSED STATUS CT X TESTED: 2/24/16 01040474 21FL #21J FSD T21-12 CLOSED STATUS CT X TESTED: 2/24/16					- - -	
01040467 20FL #20G FSD T20-10 CLOSED STATUS CT X TESTED: 2/24/16 01040468 20FL #20F FSD T20-11 CLOSED STATUS CT X TESTED: 2/24/16 01040469 20FL #20J FSD T20-12 CLOSED STATUS CT X TESTED: 2/24/16 01040470 20FL #20H FSD T20-13 CLOSED STATUS CT X TESTED: 2/24/16 01040471 21FL #21E FSD T21-9 CLOSED STATUS CT X TESTED: 2/24/16 01040472 21FL #21G FSD T21-10 CLOSED STATUS CT X TESTED: 2/24/16 01040473 21FL #21F FSD T21-11 CLOSED STATUS CT X TESTED: 2/24/16 01040474 21FL #21J FSD T21-12 CLOSED STATUS CT X TESTED: 2/24/16				_	-	
01040468 20FL #20F FSD T20-11 CLOSED STATUS CT X TESTED: 2/24/16 01040469 20FL #20J FSD T20-12 CLOSED STATUS CT X TESTED: 2/24/16 01040470 20FL #20H FSD T20-13 CLOSED STATUS CT X TESTED: 2/24/16 01040471 21FL #21E FSD T21-9 CLOSED STATUS CT X TESTED: 2/24/16 01040472 21FL #21G FSD T21-10 CLOSED STATUS CT X TESTED: 2/24/16 01040473 21FL #21F FSD T21-11 CLOSED STATUS CT X TESTED: 2/24/16 01040474 21FL #21J FSD T21-12 CLOSED STATUS CT X TESTED: 2/24/16						
01040469 20FL #20J FSD T20-12 CLOSED STATUS CT X TESTED: 2/24/16 01040470 20FL #20H FSD T20-13 CLOSED STATUS CT X TESTED: 2/24/16 01040471 21FL #21E FSD T21-9 CLOSED STATUS CT X TESTED: 2/24/16 01040472 21FL #21G FSD T21-10 CLOSED STATUS CT X TESTED: 2/24/16 01040473 21FL #21F FSD T21-11 CLOSED STATUS CT X TESTED: 2/24/16 01040474 21FL #21J FSD T21-12 CLOSED STATUS CT X TESTED: 2/24/16						
01040470 20FL #20H FSD T20-13 CLOSED STATUS CT X TESTED: 2/24/16 01040471 21FL #21E FSD T21-9 CLOSED STATUS CT X TESTED: 2/24/16 01040472 21FL #21G FSD T21-10 CLOSED STATUS CT X TESTED: 2/24/16 01040473 21FL #21F FSD T21-11 CLOSED STATUS CT X TESTED: 2/24/16 01040474 21FL #21J FSD T21-12 CLOSED STATUS CT X TESTED: 2/24/16			CT			
01040471 21FL #21E FSD T21-9 CLOSED STATUS CT X TESTED: 2/24/16 01040472 21FL #21G FSD T21-10 CLOSED STATUS CT X TESTED: 2/24/16 01040473 21FL #21F FSD T21-11 CLOSED STATUS CT X TESTED: 2/24/16 01040474 21FL #21J FSD T21-12 CLOSED STATUS CT X TESTED: 2/24/16	01040469	20FL #20J FSD T20-12 CLOSED STATUS	CT	Х		TESTED: 2/24/16
01040471 21FL #21E FSD T21-9 CLOSED STATUS CT X TESTED: 2/24/16 01040472 21FL #21G FSD T21-10 CLOSED STATUS CT X TESTED: 2/24/16 01040473 21FL #21F FSD T21-11 CLOSED STATUS CT X TESTED: 2/24/16 01040474 21FL #21J FSD T21-12 CLOSED STATUS CT X TESTED: 2/24/16	01040470	20FL #20H FSD T20-13 CLOSED STATUS	CT	X		TESTED: 2/24/16
01040472 21FL #21G FSD T21-10 CLOSED STATUS CT X TESTED: 2/24/16 01040473 21FL #21F FSD T21-11 CLOSED STATUS CT X TESTED: 2/24/16 01040474 21FL #21J FSD T21-12 CLOSED STATUS CT X TESTED: 2/24/16					\neg	
01040473 21FL #21F FSD T21-11 CLOSED STATUS CT X TESTED: 2/24/16 01040474 21FL #21J FSD T21-12 CLOSED STATUS CT X TESTED: 2/24/16				_		
01040474 21FL #21J FSD T21-12 CLOSED STATUS CT X TESTED: 2/24/16					- - -	
				_		
01040475 21FL #21H FSD T21-13 CLOSED STATUS CT X TESTED: 2/24/16				_	-	
				X		
01040476 22FL #22E FSD T22-9 CLOSED STATUS CT X TESTED: 2/24/16	01040476	22FL #22E FSD T22-9 CLOSED STATUS	CT	X		TESTED: 2/24/16

				,				
	22FL #22G FSD T22-10 CLOSED STATUS	CT	X	L		<u> </u>	TESTED: 2/24/16	
	22FL #22F FSD T22-11 CLOSED STATUS	CT	X				TESTED: 2/24/16	
01040479	22FL #22J FSD T22-12 CLOSED STATUS	CT	L X				TESTED: 2/24/16	
01040480	22FL #22H FSD T22-13 CLOSED STATUS	CT	Х				TESTED: 2/24/16	
01040481	23FL #23E FSD T23-9 CLOSED STATUS	CT	Х				TESTED: 2/24/16	
01040482	23FL #23G FSD T23-10 CLOSED STATUS	CT	X				TESTED: 2/24/16	
	23FL #23F FSD T23-11 CLOSED STATUS	СТ	X				TESTED: 2/24/16	
	23FL #23J FSD T23-12 CLOSED STATUS	CT	X			_	TESTED: 2/24/16	
	23FL #23H FSD T23-13 CLOSED STATUS	CT	X	\vdash		-	TESTED: 2/24/16	
	24FL #24E FSD T24-9 CLOSED STATUS	CT CT	Î	├	\vdash		TESTED: 2/24/16	
		CT	 \hat{x}	├─			TESTED: 2/24/16	
	24FL #24G FSD T24-10 CLOSED STATUS			<u> </u>	\vdash			
	24FL #24F FSD T24-11 CLOSED STATUS	СТ	Х		Ш		TESTED: 2/24/16	
	24FL #24J FSD T24-12 CLOSED STATUS	СТ	X				TESTED: 2/24/16	
01040490	24FL #24H FSD T24-13 CLOSED STATUS	СТ	Х				TESTED: 2/24/16	
01040491	25FL #25E FSD T25-9 CLOSED STATUS	CT	Х				TESTED: 2/24/16	
01040492	25FL #25G FSD T25-10 CLOSED STATUS	CT	Х				TESTED: 2/24/16	
01040493	25FL #25F FSD T25-11 CLOSED STATUS	СТ	X		П		TESTED: 2/24/16	
	25FL #25J FSD T25-12 CLOSED STATUS	CT	X				TESTED: 2/24/16	
	25FL #25H FSD T25-13 CLOSED STATUS	CT	x				TESTED: 2/24/16	
				-	₩	~		
	MR B5 LVL ELEV P1-P2 LOBBY SMOKE DETECTOR	SD	X	-	Ÿ		TESTED: 3/10/16, RECALLED	
	MR B5 LVL ELEV P1-P2 MACH RM SMOKE DET.	SD	X	<u> </u>	X		TESTED: 3/10/16, RECALLED	
	MR B5 LVL MECH ROOM SMOKE DETECTOR	SD	Х	$ldsymbol{ld}}}}}}$	X		TESTED: 2/25/16	
03020004	MR B5 LVL ELEV P1-P2 MACH RM HEAT DET.	HD	Х		Х	Х	TESTED: 3/10/16, SHUNTED	
03020005	MR B5 LVL ELECTRIC RM SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/25/16	
	MR B4 LVL ELEV P1-P2 LOBBY SMOKE DETECTOR	SD	Х		X		TESTED: 3/10/16, RECALLED	
	MR B4 LVL ELECTRIC RM SMOKE DETECTOR	SD	X		$\frac{\hat{x}}{x}$		TESTED: 2/25/16	
	MR B5 LVL ELEV P1-P2 MACH RM HEAT DET.	HD	Ŷ		Î		TESTED: 3/10/16, SHUNTED	
				\vdash	$\vdash \cap \vdash$			
	MR B5 LVL ELEV P1-P2 DOOR RELEASE RELAY	CR	X				TESTED: 3/10/16	
	MR B5 LVL ELEV P1-P2 PRIMARY RECALL	CR	Х		Ш		TESTED: 3/10/16	
	MR B5 LVL ELEV P1-P2 ALTERNATE RECALL	CR	Х				TESTED: 3/10/16	
03020129	MR B5 LVL ELEV P1-P2 FIRE HAT OUTPUT	CR	Х				TESTED: 3/10/16	
03020130	MR B5 LVL ELEV P1-P2 MACH RM FSD RELAY	CR	Х				TESTED: 2/25/16	
03020131	MR B5 LVL FAN SF B5-4 POWER DISCONNECT	CT	Х				TESTED: 3/3/16	
03020132	MR B5 LVL FAN SF B5-3 POWER DISCONNECT	CT	Х				TESTED: 3/3/16	
	MR B5 LVL FAN EF B5-4 POWER DISCONNECT	CT	X				TESTED: 3/3/16	
	MR B5 LVL FAN EF B5-3 POWER DISCONNECT	CT	X	-	-		TESTED: 3/3/16	
		CT	x				TESTED: 3/3/16	
	MR B5 LVL FAN EF B5-1 POWER DISCONNECT							
	MR B5 LVL FAN EF B5-2 POWER DISCONNECT	CT	Х				TESTED: 3/3/16	
	MR B5 LVL FAN SF B5-2 POWER DISCONNECT	CT	Х				TESTED: 3/3/16	
03020138	MR B5 LVL FAN SF B5-1 POWER DISCONNECT	CT	X				TESTED: 3/3/16	
03020139	MR B5 LVL STAIR 4 WATERFLOW	WF	Х		X	Х	TESTED: 3/2/16 TIME: < 90 SEC	
03020140	MR B5 LVL STAIR 4 VALVE TAMPER	VT	Х		Х	Х	TESTED: 3/2/16 TURNS: < 2.5	
03020141	MR B5 LVL FAN SF B5-4 'ON' MODULE	CT	X				TESTED: 2/25/16	
	MR B5 LVL FAN SF B5-4 'OFF' MODULE	CT	X		_	-	TESTED: 2/25/16	
	MR B5 LVL FAN SF B5-3 'ON' MODULE	CT	$\frac{\hat{x}}{x}$			-	TESTED: 2/25/16	
	MR B5 LVL FAN SF B5-3 'OFF' MODULE	CT	Х	I	_		TESTED: 2/25/16	
	MR B5 LVL FAN EF B5-4 'ON' MODULE	CT	X	\Box			TESTED: 2/25/16	
	MR B5 LVL FAN EF B5-4 'OFF' MODULE	CT	Х				TESTED: 2/25/16	
	MR B5 LVL FAN EF B5-3 'ON' MODULE	CT	Х]	I	I	TESTED: 2/25/16	
03020148	MR B5 LVL FAN EF B5-3 'OFF' MODULE	CT	Х				TESTED: 2/25/16	
03020149	MR B5 LVL FAN EF B5-1 'ON' MODULE	CT	Х		\neg	\neg	TESTED: 2/25/16	
	MR B5 LVL FAN EF B5-1 'OFF' MODULE	CT	X				TESTED: 2/25/16	
	MR B5 LVL FAN EF B5-2 'ON' MODULE	CT	$\hat{\mathbf{x}}$	-			TESTED: 2/25/16	
	MR B5 LVL FAN EF B5-2 'OFF' MODULE	CT	x				TESTED: 2/25/16	
	4							
	MR B5 LVL FAN SF B5-2 'ON' MODULE	CT	X				TESTED: 2/25/16	
	MR B5 LVL FAN SF B5-2 'OFF' MODULE	СТ	Х			_	TESTED: 2/25/16	
	MR B5 LVL FAN SF B5-1 'ON' MODULE	CT	Х				TESTED: 2/25/16	
03020156	MR B5 LVL FAN SF B5-1 'OFF' MODULE	CT	X		1		TESTED: 2/25/16	
03020158	MR B4 LVL ELEV P1-P2 DOOR RELEASE RELAY	CR	Х				TESTED: 3/10/16	
	MR B4 LVL FAN SF B4-4 POWER DISCONNECT	CT	Х				TESTED: 3/3/16	
	MR B4 LVL FAN SF B4-3 POWER DISCONNECT	CT	x		-+		TESTED: 3/3/16	
	MR B4 LVL FAN EF B4-4 POWER DISCONNECT	CT	x	-			TESTED: 3/3/16	
		CT	ŝ l				TESTED: 3/3/16	
	MR B4 LVL FAN EF B4-3 POWER DISCONNECT				-		TESTED: 3/3/16	
				- 1	- 1	- 1	1 E S 1 E 1 E 313/10	
03020163	MR B4 LVL FAN EF B4-1 POWER DISCONNECT	CT						
03020163 03020164	MR B4 LVL FAN EF B4-1 POWER DISCONNECT MR B4 LVL FAN EF B4-2 POWER DISCONNECT MR B4 LVL FAN SF B4-2 POWER DISCONNECT	CT CT	XX				TESTED: 3/3/16 TESTED: 3/3/16	

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	MR B4 LVL FAN SF B4-1 POWER DISCONNECT MR B4 LVL STAIR 4 WATERFLOW	WF	Ϋ́	Н,	\dashv		TESTED: 3/3/16 TESTED: 3/2/16 TIME: < 90 SEC
	MR B4 LVL STAIR 4 WATERFLOW	VT	X				TESTED: 3/2/16 TURNS: < 2.5
	MR B4 LVL FAN SF B4-4 'ON' MODULE	CT	Î	 	+	<u> </u>	TESTED: 2/25/16
	MR B4 LVL FAN SF B4-4 'OFF' MODULE	CT	x		+		TESTED: 2/25/16
	MR B4 LVL FAN SF B4-3 'ON' MODULE	CT	X		+		TESTED: 2/25/16
	MR B4 LVL FAN SF B4-3 'OFF' MODULE	CT	X	 	7		TESTED: 2/25/16
	MR B4 LVL FAN EF B4-4 'ON' MODULE	CT	X		┪		TESTED: 2/25/16
<u></u>	MR B4 LVL FAN EF B4-4 'OFF' MODULE	CT	X		7		TESTED: 2/25/16
	MR B4 LVL FAN EF B4-3 'ON' MODULE	CT	X		7		TESTED: 2/25/16
03020176	MR B4 LVL FAN EF B4-3 'OFF' MODULE	CT	X		T		TESTED: 2/25/16
03020177	MR B4 LVL FAN EF B4-1 'ON' MODULE	CT	X		1		TESTED: 2/25/16
03020178	MR B4 LVL FAN EF B4-1 'OFF' MODULE	CT	X		T		TESTED: 2/25/16
03020179	MR B4 LVL FAN EF B4-2 'ON' MODULE	CT	Х				TESTED: 2/25/16
03020180	MR B4 LVL FAN EF B4-2 'OFF' MODULE	CT	Х				TESTED: 2/25/16
03020181	MR B4 LVL FAN SF B4-2 'ON' MODULE	CT	X		\perp		TESTED: 2/25/16
	MR B4 LVL FAN SF B4-2 'OFF' MODULE	CT	X		\perp		TESTED: 2/25/16
	MR B4 LVL FAN SF B4-1 'ON' MODULE	CT	X		4		TESTED: 2/25/16
	MR B4 LVL FAN SF B4-1 'OFF' MODULE	CT	X		4		TESTED: 2/25/16
	MR B5 LVL STAIR 6 WATERFLOW	WF	X		_	\rightarrow	TESTED: 3/2/16 TIME: < 90 SEC
	MR B5 LVL STAIR 6 VALVE TAMPER	VT	X		_		TESTED: 3/2/16 TURNS: < 2.5
	MR B4 LVL STAIR 6 WATERFLOW	WF VT	Ϋ́		-		TESTED: 3/2/16 TIME: < 90 SEC
	MR B4 LVL STAIR 6 VALVE TAMPER MR B3 LVL STAIR 6 WATERFLOW		X				TESTED: 3/2/16 TURNS: < 2.5 TESTED: 3/2/16 TIME: < 90 SEC
	MR B3 LVL STAIR 6 WATERFLOW	WF VT	X		_		TESTED: 3/2/16 TURNS: < 2.5
	MR B2 LVL STAIR 6 WATERFLOW	WF	Ŷ				TESTED: 3/2/16 TIME: < 90 SEC
	MR B2 LVL STAIR 6 WATER LOW	VT	x		_	\rightarrow	TESTED: 3/2/16 TURNS: < 2.5
	MR B1 LVL STAIR 6 WATERFLOW	WF	x		-	$\overline{}$	TESTED: 3/2/16 TIME: < 90 SEC
	MR B1 LVL STAIR 6 VALVE TAMPER	VT	x		_	\rightarrow	TESTED: 3/2/16 TURNS: < 2.5
	MR L LVL STAIR 6 WATERFLOW	WF	X			-	TESTED: 3/2/16 TIME: < 90 SEC
	MR L LVL STAIR 6 VALVE TAMPER	VT	X		_		TESTED: 3/2/16 TURNS: < 2.5
	MR CL LVL STAIR 6 WATERFLOW	WF	X	T X	_		TESTED: 3/2/16 TIME: < 90 SEC
	MR CL LVL STAIR 6 VALVE TAMPER	VT	X				TESTED: 3/2/16 TURNS: < 2.5
	MR 3FL STAIR 6 WATERFLOW	WF	X	X	-		TESTED: 3/2/16 TIME: < 90 SEC
	MR 3FL STAIR 6 VALVE TAMPER	VT	X		_		TESTED: 3/2/16 TURNS: < 2.5
03020201	MR 4FL STAIR 6 WATERFLOW	WF	Х	Х	1	Х	TESTED: 3/2/16 TIME: < 90 SEC
03020202	MR 4FL STAIR 6 VALVE TAMPER	VT	X	X		X	TESTED: 3/2/16 TURNS: < 2.5
03020203	MR 5FL STAIR 6 WATERFLOW	WF	Х	X	\Box	Х	TESTED: 3/2/16 TIME: < 90 SEC
03020204	MR 5FL STAIR 6 VALVE TAMPER	VT	Х	Х	\Box	Х	TESTED: 3/2/16 TURNS: < 2.5
03020205	MR 6FL STAIR 6 WATERFLOW	WF	Х	X		Х	TESTED: 3/2/16 TIME: < 90 SEC
	MR 6FL STAIR 6 VALVE TAMPER	VT	Х	X	-		TESTED: 3/2/16 TURNS: < 2.5
	MR 7FL STAIR 6 WATERFLOW	WF	Х	X	-	_	TESTED: 3/2/16 TIME: < 90 SEC
	MR 7FL STAIR 6 VALVE TAMPER	77	Х	X	-		TESTED: 3/2/16 TURNS: < 2.5
	MR 8FL STAIR 6 WATERFLOW	WF	Х	X	_		TESTED: 3/2/16 TIME: < 90 SEC
	MR 8FL STAIR 6 VALVE TAMPER	Vī	X	X	_		TESTED: 3/2/16 TURNS: < 2.5
	MR 9FL STAIR 6 WATERFLOW	WF	X	X	-	_	TESTED: 3/2/16 TIME: < 90 SEC
	MR 9FL STAIR 6 VALVE TAMPER	VT	X	— X			TESTED: 3/2/16 TURNS: < 2.5
	MR 10FL STAIR 6 WATERFLOW		X				TESTED: 3/2/16 TIME: < 90 SEC
	MR 10FL STAIR 6 VALVE TAMPER	VT	X		-		TESTED: 3/2/16 TURNS: < 2.5
	MR PH LVL STAIR 6 WATERFLOW	WF	X	— X	-		TESTED: 3/2/16 TIME: < 90 SEC
	MR PH LVL STAIR 6 VALVE TAMPER MR 12FL STAIR 6 WATERFLOW	VT WF	Ŷ	— X X	_	_	TESTED: 3/2/16 TURNS: < 2.5 TESTED: 3/2/16 TIME: < 90 SEC
	MR 12FL STAIR 6 WATERFLOW MR 12FL STAIR 6 VALVE TAMPER	VT	X	X	_		TESTED: 3/2/16 TIME: < 90 SEC TESTED: 3/2/16 TURNS: < 2.5
	MR B5 LVL ELEV P1-P2 DOOR HOLDER RELAY	CR	Ŷ	- ^	+		TESTED: 3/10/16
	MR L LEVEL VON DUPRIN CORR LOCK RELEASE	CR	x		+	$\overline{}$	TESTED: 3/9/16
	MR L LEVEL VON DUPRIN STAIR 6 DOOR RELEASE	CR	$\frac{\hat{x}}{x}$		+	_	TESTED: 3/9/16
	MR B5 LVL ELEV P1 CAR BATTERY SHUNT	CR	Ŷ		+		TESTED: 3/10/16
	MR B5 LVL ELEV P2 CAR BATTERY SHUNT	CR	x		+		TESTED: 3/10/16
	MR B3 LVL STAIR #4 WATERFLOW	WF	X	X	+		TESTED: 3/2/16 TIME: < 90 SEC
	MR B3 LVL STAIR #4 VALVE TAMPER	Vi	$\hat{\mathbf{x}}$	$-+\hat{x}$			TESTED: 3/2/16 TURNS: < 2.5
	MR B2 LVL STAIR #4 WATERFLOW	WF	$\hat{\mathbf{x}}$	$-\frac{\hat{x}}{x}$			TESTED: 3/2/16 TIME: < 90 SEC
	MR B2 LVL STAIR #4 VALVE TAMPER	VT	x	$\frac{\hat{x}}{x}$	_	_	TESTED: 3/2/16 TURNS: < 2.5
	B1 LVL STAIR #4 WATERFLOW	WF	X	$-\frac{\hat{x}}{x}$			TESTED: 3/2/16 TIME: < 90 SEC
	B1 LVL STAIR #4 VALVE TAMPER	VT	$\hat{\mathbf{x}}$	Τ̈́x			TESTED: 3/2/16 TURNS: < 2.5
	MR B3 LVL STORAGE RM SMOKE DETECTOR	SD	X		-		TESTED: 2/25/16
<u></u>	MR B3 LVL ELEV P1-P2 LOBBY SMOKE DETECTOR	SD	Х		_		TESTED: 3/10/16, RECALLED

[·:		erien er en e En en	
	·							
	MR B2 LVL ELECTRIC RM SMOKE DETECTOR	SD	X				TESTED: 2/25/16]
	MR B2 LVL ELEV P1-P2 LOBBY SMOKE DETECTOR MR B2 LVL ELEVATOR F1 MACH RM SMOKE DET.	SD	X				TESTED: 3/10/16, RECALLED TESTED: 3/10/16, RECALLED	1
	MR B2 LVL MECH ROOM SMOKE DETECTOR	SD	 x				TESTED: 2/25/16	-
03020257	MR B2 LVL ELEVATOR F1 HEAT DETECTOR	HD	Х				TESTED: 3/10/16, SHUNTED	
	MR B1 LVL ELEVATOR S3 LOBBY SMOKE DETECTOR		Х		Х		TESTED: 3/9/16, RECALLED	
	MR B1 LVL ELEVATOR S4 MACH RM SMOKE DET.	SD	X	_	Ϋ́		TESTED: 3/10/16, RECALLED	
	MR B1 LVL ELEVATOR S4 MACH RM HEAT DET. B1 LEVEL FAN MUA-1 FAN DUCT DETECTOR	HD DD	X	-+	X		TESTED: 3/10/16, SHUNTED TESTED: 3/15/16	-
	B1 LEVEL FAN TF-1 FAN DUCT DETECTOR	DD	X	\dashv	$\hat{\mathbf{x}}$		TESTED: 3/15/16	1
	MR B3 LVL ELEV P1-P2 DOOR RELEASE RELAY	CR	Х				TESTED: 3/10/16]
	MR B3 LVL FAN SF B3-4 POWER DISCONNECT	CT	X	\rightarrow			TESTED: 3/3/16	-
	MR B3 LVL FAN SF B3-3 POWER DISCONNECT MR B3 LVL FAN EF B3-3 POWER DISCONNECT	CT CT	X	+	\dashv		TESTED: 3/3/16 TESTED: 3/3/16	1
	MR B3 LVL FAN EF B3-3 FOWER DISCONNECT	CT	Î	\dashv			TESTED: 3/3/16	
03020381	MR B3 LVL FAN EF B3-2 POWER DISCONNECT	СТ	Х				TESTED: 3/3/16	
	MR B3 LVL FAN EF B3-1 POWER DISCONNECT	CT	X	_			TESTED: 3/3/16	
	MR B3 LVL FAN SF B3-2 POWER DISCONNECT MR B3 LVL FAN SF B3-1 POWER DISCONNECT	CT	X				TESTED: 3/3/16 TESTED: 3/3/16	·
	MR B3 LVL FAN SF B3-1 FOWER DISCONNECT	CT	 \hat{x}	\dashv	\dashv		TESTED: 2/25/16	
	MR B3 LVL FAN SF B3-4 'OFF' MODULE	CT	X	\neg			TESTED: 2/25/16	
	MR B3 LVL FAN SF B3-3 'ON' MODULE	CT	Х				TESTED: 2/25/16	
	MR B3 LVL FAN SF B3-3 'OFF' MODULE	CT	X		_		TESTED: 2/25/16	
	MR B3 LVL FAN EF B3-3 'ON' MODULE MR B3 LVL FAN EF B3-3 'OFF' MODULE	CT	X				TESTED: 2/25/16 TESTED: 2/25/16	
	MR B3 LVL FAN EF B3-3 OFF MODULE	CT	x	\dashv	-		TESTED: 2/25/16	
	MR B3 LVL FAN EF B3-4 'OFF' MODULE	CT	X	_			TESTED: 2/25/16	
	MR B3 LVL FAN EF B3-2 'ON' MODULE	CT	Х			_	TESTED: 2/25/16	
	MR B3 LVL FAN EF B3-2 'OFF' MODULE	CT	X		4	;	TESTED: 2/25/16	
	MR B3 LVL FAN EF B3-1 'ON' MODULE MR B3 LVL FAN EF B3-1 'OFF' MODULE	CT	X				TESTED: 2/25/16 TESTED: 2/25/16	
	MR B3 LVL FAN SF B3-2 'ON' MODULE	CT	Î	-+			TESTED: 2/25/16	
	MR B3 LVL FAN SF B3-2 'OFF' MODULE	CT	X		_		TESTED: 2/25/16	
	MR B3 LVL FAN SF B3-1 'ON' MODULE	CT	Х				TESTED: 2/25/16	
	MR B3 LVL FAN SF B3-1 'OFF' MODULE	CT	X	\dashv			TESTED: 2/25/16	
	STAIR 5 FIREFIGHTER'S PHONE STAIR 6 FIREFIGHTER'S PHONE	CC	X		-	\rightarrow	TESTED: 3/4/16 TESTED: 3/4/16	
	ELEV C6&S3 LOBBY FIREFIGHTER'S PHONE	CC	Î	\dashv	-		TESTED: 3/4/16	
	STAIR 4 FIREFIGHTER'S PHONE	CC	Х				TESTED: 3/4/16	
	ELEV P1-P2 CAB FIREFIGHTER'S PHONE	CC	Х				TESTED: 3/4/16	
	ELEV F1 CAB FIREFIGHTER'S PHONE	CC	X		-		TESTED: 3/4/16 TESTED: 3/4/16	
	ELEV S4 LOBBY FIREFIGHTER'S PHONE ELEV S4 CAB FIREFIGHTER'S PHONE	CC	X		+		TESTED: 3/4/16	
	STAIR 5 SPEAKER TRBL CIRCUIT A81	CC	X	\dashv	+		TESTED: 3/8/16	
	STAIR 6 SPEAKER TRBL CIRCUIT A82	CC	Х			-	TESTED: 3/8/16	
	STAIR 4.SPEAKER TRBL CIRCUIT A80	CC	X	_	4	_	TESTED: 3/8/16	
	ELEV P1-P2 SPKR TRBL CIRCUIT A83 ELEV F1 SPEAKER TRBL CIRCUIT A84	CC	X	\dashv	\dashv	$\overline{}$	TESTED: 3/8/16 TESTED: 3/8/16	
1	ELEV S4 SPEAKER TRBL CIRCUIT A94	CC	x	-	-	_	TESTED: 3/8/16	
	MR B2 LVL ELEV P1-P2 DOOR RELEASE RELAY	CR	Х				TESTED: 3/10/16	
	MR B2 LVL ELEV F1 MACH RM FSD RELAY	CR	X	\Box	耳		TESTED: 2/25/16	
	MR B2 LVL ELEVATOR F1 PRIMARY RECALL	CR	Ϋ́			$\overline{}$	TESTED: 3/10/16	
	MR B2 LVL ELEVATOR F1 ALTERNATE RECALL MR B2 LVL ELEVATOR F1 FIRE HAT OUTPUT	CR CR	X	+	+		TESTED: 3/10/16 TESTED: 3/10/16	
	MR B2 LVL FAN SF B2-2 POWER DISCONNECT	CT	$\frac{\hat{x}}{x}$	一十	1		TESTED: 3/3/16	
03020425	MR B2 LVL FAN EF B2-3 POWER DISCONNECT	CT	Х				TESTED: 3/3/16	
	MR B2 LVL FAN EF B2-4 POWER DISCONNECT	CT	X	\bot	\dashv		TESTED: 3/3/16	
	MR B2 LVL FAN EF B2-2 POWER DISCONNECT	CT	X	+	-		TESTED: 3/3/16	
	MR B2 LVL FAN EF B2-1 POWER DISCONNECT MR B2 LVL FAN SF B2-1 POWER DISCONNECT	CT CT	X	+	\dashv		TESTED: 3/3/16 TESTED: 3/3/16	
	MR B2 LVL FAN SF B2-2 'ON' MODULE	CT	$\frac{\hat{x}}{x}$	\dashv	\dashv	_	TESTED: 2/25/16	
03020433	MR B2 LVL FAN SF B2-2 'OFF' MODULE	CT	Х				TESTED: 2/25/16	
i	MR B2 LVL FAN EF B2-3 'ON' MODULE	CT	X	\Box	Ţ	_	TESTED: 2/25/16	
	MR B2 LVL FAN EF B2-3 'OFF' MODULE	CT	X		-+	_	TESTED: 2/25/16 TESTED: 2/25/16	
	MR B2 LVL FAN EF B2-4 'ON' MODULE MR B2 LVL FAN EF B2-4 'OFF' MODULE	CT CT	X	+	-		TESTED: 2/25/16	

			T-:-				IT-OVER COSTO
	MR B2 LVL FAN EF B2-2 'ON' MODULE	CT	1×	<u> </u>	ļ	1	TESTED: 2/25/16
	MR B2 LVL FAN EF B2-2 'OFF' MODULE	CT	<u> X</u>	<u> </u>		<u> </u>	TESTED: 2/25/16
	MR B2 LVL FAN EF B2-1 'ON' MODULE	CT	I X	<u></u>	<u></u>	┸	TESTED: 2/25/16
03020441	MR B2 LVL FAN EF B2-1 'OFF' MODULE	CT	L X	!	L	<u> </u>	TESTED: 2/25/16
03020442	MR B2 LVL FAN SF B2-1 'ON' MODULE	CT	X				TESTED: 2/25/16
03020443	MR B2 LVL FAN SF B2-1 'OFF' MODULE	CT	X			Т	TESTED: 2/25/16
03020444	MR B2 LVL ELEVATOR F1 SHUNT POWER TROUBLE	СТ	X	†	!	1	TESTED: 3/10/16
03020445		CR	Ϊ́х	┼	├─	+	TESTED: 3/10/16
	MR B1 LVL ELEVATOR S4 ALTERNATE RECALL	CR	l ŝ	 	-	\vdash	TESTED: 3/10/16
				┈		┼	
03020447		CR	X	ļ	L	↓	TESTED: 3/10/16
	MR B1 LVL ELEVATOR S4 MACH ROOM FSD RELAY	CR	X			<u> </u>	TESTED: 2/25/16
03020449	MR B1 LVL FAN EF B1-3 POWER DISCONNECT	CT	X			1	TESTED: 3/3/16
03020450	MR B1 LVL FAN EF B1-4 POWER DISCONNECT	CT	X			П	TESTED: 3/3/16
03020451	MR B1 LVL FAN EF B1-2 POWER DISCONNECT	CT	X		\Box	1	TESTED: 3/3/16
03020452	MR B1 LVL FAN EF B1-1 POWER DISCONNECT	СТ	X	-	\vdash	\vdash	TESTED: 3/3/16
	MR B1 LVL ELEVATOR S4 SHUNT POWER TROUBLE	CT	Ϊ́х	 	\vdash	+	TESTED: 3/10/16
	<u> </u>			├	├—	┼	
	MR B1 LVL FAN EF B1-3 'ON' MODULE	СТ	X		<u> </u>	↓	TESTED: 2/25/16
	MR B1 LVL FAN EF B1-3 'OFF' MODULE	СТ	X			L	TESTED: 2/25/16
03020456	MR B1 LVL FAN EF B1-4 'ON' MODULE	CT	Х			<u> </u>	TESTED: 2/25/16
03020457	MR B1 LVL FAN EF B1-4 'OFF' MODULE	CT	X				TESTED: 2/25/16
	MR B1 LVL FAN EF B1-2 'ON' MODULE	СТ	X				TESTED: 2/25/16
	MR B1 LVL FAN EF B1-2 'OFF' MODULE	CT	Î	\vdash	 	 	TESTED: 2/25/16
				-	├	+	
	MR B1 LVL FAN EF B1-1 'ON' MODULE	CT	X		 -		TESTED: 2/25/16
03020461		CT	LX.	\Box		<u> </u>	TESTED: 2/25/16
	MR B1 LVL STAIR 5 VALVE TAMPER	VT .	X		Х		TESTED: 3/1/16 TURNS: < 2.5
03020463	MR B1 LVL STAIR 6 VALVE TAMPER	VT	X		Х	Х	TESTED: 3/1/16 TURNS: < 2.5
03020465	MR L LVL FAN MUA-1 SHUTDOWN RELAY	CR	Х				TESTED: 3/15/16
03020466	MR L LVL FAN TF-1 SHUTDOWN RELAY	CR	X	1		†	TESTED: 3/15/16
	MR L LVL FAN MUA-1 DAMPER RELAY	CR	Î	\vdash	_	╁	TESTED: 2/25/16
				-	_	├	
	MR L LVL FAN TF-1 DAMPER RELAY	CR	X	ļ		<u> </u>	TESTED: 2/25/16
	MR B1 LVL ELEV \$4 CAR BATTERY SHUNT	CR	X			<u> </u>	TESTED: 3/10/16
03020499	MR B2 LVL ELEV F1 CAR BATTERY SHUNT	CR	Х				TESTED: 3/10/16
03020500	MR B5 LVL ELEV P1&P2 SHUNT POWER TROUBLE	CT	X			Г	TESTED: 3/10/16
04020001	MR L LVL ELECTRIC RM SMOKE DETECTOR	SD	X		Х	X	TESTED: 2/25/16
	MR L LVL TRASH ROOM SMOKE DETECTOR	SD	x	\vdash	$\frac{\hat{x}}{x}$		TESTED: 2/25/16
	MR L LVL MECH ROOM SMOKE DETECTOR	SD	X	-	Х	X	
04020004	MR L LVL MECH ROOM SMOKE DETECTOR	SD	Х		Х	I X	TESTED: 2/25/16
04020005	MR L LVL ELEVATOR S4 LOBBY SMOKE DETECTOR	SD	X		Х	X	TESTED: 3/10/16, RECALLED
04020007	MR L LVL CORRIDOR SMOKE DETECTOR	SD	Х		X	Х	TESTED: 2/25/16
04020008	MR L LVL TELECOM ROOM SMOKE DETECTOR	SD	Х		X	X	TESTED: 2/25/16
	MR L LVL CORR AT ELEV SMOKE DETECTOR	SD	X	-	X		TESTED: 2/25/16
			_			-	
	MR L LVL ELEVATOR S3 LOBBY SMOKE DETECTOR	SD	X		X		TESTED: 3/9/16, RECALLED
	MR L LVL TOILET 122 SMOKE DETECTOR	SD	X		X		TESTED: 2/25/16
04020013	MR L LVL MR LOBBY SMOKE DETECTOR	SD	X]	X	X	TESTED: 2/25/16
04020014	MR L LVL ELEV C6 & S3 LOBBY SMOKE DETECTOR	SD	Х		Х	X	TESTED: 3/9/16, RECALLED
04020015	MR L LVL LOADING DOCK SMOKE DETECTOR	SD	X		X	x	TESTED: 2/25/16
	MR L LVL FUEL PUMP RM SMOKE DETECTOR	SD	Ŷ	\vdash	$\hat{\mathbf{x}}$	_	TESTED: 2/25/16
			-				
	MR L LVL SCISSOR LIFT ROOM SMOKE DETECTOR	SD	X		Х	X	
04020018	MR L LVL LOADING DOCK SMOKE DETECTOR	SD	Х		X	X	TESTED: 2/25/16
04020019	MR L LVL RECYCLING RM SMOKE DETECTOR	SD	Х		Х	X	TESTED: 2/25/16
04020020	MR L LVL STORAGE ROOM SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/25/16
04020021	MR L LVL LOADING DOCK SMOKE DETECTOR	SD	Х	$\neg \dagger$	Х	_	TESTED: 2/25/16
	MR L LVL CORRIDOR SMOKE DETECTOR	SD	x	\vdash	X		TESTED: 2/25/16
			1	\vdash			TESTED: 2/25/16
	MR L LVL POOL EQUIP ROOM SMOKE DETECTOR	SD	X		X	X	
	MR L LVL ELEVATOR F1 LOBBY SMOKE DETECTOR	SD	Х		Х		TESTED: 3/10/16, RECALLED
	MR L LVL FSD L-22 FSD DUCT DETECTOR	DD	Х		Х		TESTED: 3/15/16
04020026	MR L LVL FSD L-25 FSD DUCT DETECTOR	DD	Х		Х	X	TESTED: 3/15/16
04020028	MR L LVL FSD L-19 FSD DUCT DETECTOR	DD	Х		Х	Х	TESTED: 3/15/16
	MR L LVL FSD L-15 FSD DUCT DETECTOR	DD	Х	$\neg \uparrow$	X		TESTED: 3/15/16
	MR L LVL FSD L-17 FSD DUCT DETECTOR	DD	X		$\hat{\mathbf{x}}$		TESTED: 3/15/16
	MR L LVL FSD L-16 FSD DUCT DETECTOR	DD	X	_	Ÿ	_	TESTED: 3/15/16
	MR L LVL FAN AC ML-2 DUCT DETECTOR	DD	Х		Х		TESTED: 3/15/16
		DD	Х		Х	X	TESTED: 3/15/16
	MR L LVL FAN AC ML-1 DUCT DETECTOR	טט ן					
04020033	MR L LVL FAN AC ML-1 DUCT DETECTOR MR CL LVL ELECTRIC RM SMOKE DETECTOR	SD	x		X		TESTED: 2/24/16
04020033 04020034	MR CL LVL ELECTRIC RM SMOKE DETECTOR	SD	Х	\dashv	X	Х	TESTED: 2/24/16
04020033 04020034						X	

		Tental a	1		1 10	Traces and a second
04020038	MR CL LVL ELEVATOR S4 LOBBY SMOKE DI MR CL LVL TASTING RM SMOKE DETECTOR	\$D	X	X X	Х	TESTED: 3/10/16, RECALLED TESTED: 2/24/16
	MR CL LVL HALLWAY 221 SMOKE DETECTO MR CL LVL POOL ROOM SMOKE DETECTOR		X	X X		TESTED: 2/24/16 TESTED: 2/24/16
04020041	MR CLILVIL HALLWAY 221 SMOKE DETECTO	R SD	х	X	X	TESTED: 2/24/16
	MR CLLEVEL CORRIDOR SMOKE DETECTO MR CLLVL FSD CL-63 FSD DUCT DETECTOR		X	X		TESTED: 2/24/16 TESTED: 3/15/16
markly and the All of the Administration	MR CLEVE FSD CL-62 FSD DUCT DETECTOR		X	X	1	TESTED: 3/15/16
	MR CLLVL FSD CL-61 FSD DUCT DETECTOR MR CLLVL FSD CL-42 FSD DUCT DETECTOR		$\frac{ x }{ x }$	X	2.1	TESTED: 3/15/16 TESTED: 3/15/16
The state of the s	MR CL LVL FSD CL-43 FSD DUCT DETECTOR MR CL LVL FSD CL-45 FSD DUCT DETECTOR		X	X		TESTED: 3/15/16 TESTED: 3/15/16
04020049	MRICL LVL FSD CL-44 FSD DUCT DETECTOR	QQ DD	х	x	X	TESTED: 3/15/16
	MR 3FL ELECTRICAL RM SMOKE DETECTOR MR 3FL TRASH ROOM SMOKE DETECTOR	₹ SD	X	$\frac{X}{X}$	1	TESTED: 2/24/16 TESTED: 2/24/16
04020054	MR 3FL CORRIDOR @ 304 SMOKE DETECTO	R SD	Х	x	Х	TESTED: 2/24/16
	MR 3FL CORR @ TERRACE SMOKE DETECT MR 3FL CORRIDOR @ 303 SMOKE DETECTO		X X	X		TESTED: 2/24/16 TESTED: 2/24/16
	MR 3FL ELEVICE & S3 LOBBY SMOKE DETECTOR MR 3FL TELECOM ROOM SMOKE DETECTOR		X	X		TESTED: 3/9/16, RECALLED. TESTED: 2/24/16
04020059	MR 3FL CORRIDOR @ 302 SMOKE DETECTO	R SD	X	Ĉ	Х	TESTED: 2/24/16
04020060 04020061	MR 4FL ELECTRIC ROOM SMOKE DETECTOR MR 4FL TRASH ROOM SMOKE DETECTOR	R SD	X	$\frac{x}{x}$		TESTED: 2/24/16 TESTED: 2/24/16
04020062	MR 4FL CORRIDOR @ 404 SMCKE BETECTO	R SD	Х	х	Х	TESTED: 2/24/16
04020063	MR 4FL CORRIDOR @ 403 SMCKE DETECTO MR 4FL ELEV CS& S\$ LOBBY SMOKE DETEC	The state of the s	X	X X	_	TESTED: 2/24/16 TESTED: 3/9/19, RECALLED
	MR 4FL TELECOM ROOM SMOKE DETECTOR MR 4FL CORRIDOR @ 492 SMOKE DETECTOR		X	X	-	TESTED: 2/24/16 TESTED: 2/24/16
- 04920067	MR 5FL ELECTRIC ROOM SMOKE DETECTO	R SD	X	X	Х	TESTED: 2/24/16
	MR SELTRASH ROOM, SMOKE DETECTOR IMP SEL CORRIDOR @ 504 SMCKE DETECTOR	Manufacture	X	X	X	
04020070	MR 5FL CORRIDOR @ 503 SMOKE DETECTO	R SD	X	X	X	TESTED: 2/24/16
the state of the s	MR SELECTION ROOM SMOKE DETECTOR	AND DESCRIPTION OF THE PARTY OF	X	X	X	TESTED: 3/9/16, RECALLED TESTED: 2/24/16
	MR 5FL CORRIDOR @ 502 SMOKE DETECTO MR 6FL ELECTRIC ROOM SMOKE DETECTO		X	X		TESTED: 2/24/16 TESTED: 2/24/16
04020075	MR 6FL TRASH ROOM SMOKE DETECTOR	SD	$\frac{\hat{x}}{\hat{x}}$	 x	Х	TESTED: 2/24/16
	MR 6FL CORRIDOR @ 604 SMOKE DETECTO MR 6FL CORRIDOR @ 603 SMOKE DETECTO		X	X		TESTED: 2/24/16 TESTED: 2/24/16
<u>04020078</u>	MR 6FL ELEV C6 & S3 LOBBY SMOKE DETEC	TOR SD	X	X	Х	TESTED: 3/9/16, RECALLED
	MR 6FL TELECOM ROOM SMOKE DETECTOR MR 6FL CORRIDOR @ 602 SMOKE DETECTO		THE PERSON NAMED IN			TESTED: 2/24/16 TESTED: 2/24/16
	MR CL LVL FSD CL-66 FSD DUCT DETECTOR		or other party and the same			TESTED: 3/15/16 TESTED: 3/10/16, RECALLED
	MR L LEVEL ELEV F1 SHAFT SMOKE DETECT MR L LEVEL ELEV F1 SHAFT HEAT DETECTO	R HD	X		- Marina Guesta	TESTED: 3/10/16, SHUNTED
The second secon	MR L LEVEL RESTAURANT STORAGE RM SA MR L LEVEL RESTAURANT MECH, ROOM DU	CALCOR COMPANY	X			TESTED: 2/25/16 TESTED: 3/15/16
04020093	MR L'LEVEL RESTAURANT HP-3 DUCT DETE	CTOR DD	X	X	χ	TESTED: 3/17/16
	MR L LEVEL RESTAURANT HP-2 DUGT DETE MR L LEVEL RESTAURANT HP-1 DUCT DETE		_	X		TESTED: 3/17/16 TESTED: 3/17/16
	MR L LEVEL RESTAURANT HP-4 DUCT DETE		X	X	_	TESTED: 3/17/16 TESTED: 2/15/16
04020100	MR L LVL SECURITY OFFICE SMOKE DETEC	TOR SD	X	X	X	TESTED: 2/25/16
	MR L LEVEL RESTAURANT HP-5 DUCT DETE MR L LVL FAN AC ML-2 SHUTDOWN RELAY			X	X	TESTED: 3/17/15 TESTED: 3/15/16
.04020127	MR LIVL FAN AC ML-1 SHUTDOWN RELAY	CR	Х	- de Mer g	5-3	TESTED: 3/15/16
	MR L LEVEL ELECT; RM DOOR RELEASE RE MR L LVL ELEVATOR S4 DOOR RELEASE RE					TESTED: 3/9/16 TESTED: 3/9/16
	MR L LVL FSD L-15,25,1-32-33,19,20-23 MR L LVL FSD L-16-17,1-12-14,26			neu e cou euro honci esta konsta		TESTED: 2/25/16 TESTED: 2/25/16
Transmitted to the state of the	MR L LVL TELECOM ROOM SECURITY INTER	RFACE CR		ngfini Ngga Masawan Laga	- * * * * * * * * * * * * * * * * * * *	TESTED: 3/9/16
04020133	MR 1FL LVL KITCHEN FRYER ANSUL	Ċī			1.25	TESTED: 3/3/16 (SHORTED MODULE DNUY)
04020134	MR CL LEVEL POOL ROOM FSD CONTROL R	ELAY CR	X			TESTED: 2/25/16
	MR CL LVL FSD CL-63 CONTROL RELAY MR CL LVL FSD CL-42, 43,44,45,64,65 RELAY	CR	X		in ustrie	TESTED: 2/25/16 TESTED: 2/25/16
					file.	

04020137	IMR CL LVL-FSD CL-62 CONTROL RELAY	CR	Īχ		E Second	Section 1	TESTED: 2/25/16	
	MR CLIEVE TELCO ROOM SECURITY INTERFACE	CR	Х	100	1		TESTED: 3/9/16	
	MR CLILVE FIREPLACE GAS SHUTDOWN RELAY	CR	X		5.5	KC.	TESTED: 3/9/16 TESTED: 2/25/16	
	MR 3FL SUP FSD M3-1 CLOSED STATUS MR 3FL EXH FSD M3-2 CONTROL MODULE	CR	X		200		TESTED: 2/25/16	200 200
	MR 4FL SUP FSD M4-1 CLOSED STATUS	CT	X				TESTED: 2/25/16	
	MR 4FL EXH FSD M4-2 CONTROL MODULE	CR	X	de sé a		S	TESTED: 2/25/16	
	MR 5FL SUP FSD M5-1 CLOSED STATUS	्टा	X	d with	406	2000	TESTED: 2/25/16	
	MR 5FL EXH FSD M5-2 CONTROL MODULE MR 6FL SUP FSD M6-1 CLOSED STATUS	CR	X			4-1205-01	TESTED: 2/25/16 TESTED: 2/25/16	
	MR 6FL EXH FSD M6-2 CONTROL MODULE	CR	X	100		77	TESTED: 2/25/16	
	MR L LVL STAIR 5 WATERFLOW	WF	X	11-6	Х	Х		
and the second section of the second	MRILLVESTAIR 5 VALVE TAMPER	M	Х	Augus;	Х		TESTED: 3/2/16 TURNS: < 2.5	
	MR CL LVL STAIR 5 WATERFLOW MR CL LVL STAIR 5 VALVE TAMPER	WF VT	X	1000	$\frac{X}{X}$		TESTED: 3/2/16 TIME: < 90 SEC TESTED: 3/2/16 TURNS: < 2.5	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	MR 3FL STAIR 5 WATERFLOW	WF	X		<del> </del>	<del></del>	TESTED: 3/2/16 TIME: < 90 SEC	
	MR 3FL STAIR 5 VALVE TAMPER	XT.	Х		X		TESTED: 3/2/15 TURNS: < 2.5	
	MR 4FL STAIR 5 WATERFLOW	WF.	X		Х		TESTED: 3/2/16 TIME: < 90 SEC.	
	MR'4FL STAIR 5 VALVE TAMPER	VT	X	11000	-		TESTED: 3/2/16 TURNS: < 2.5	
	MR 5FL STAIR 5 WATERFLOW MR 5FL STAIR 5 VALVE TAMPER	WF VT	X		X		TESTED: 3/2/16 TIME: < 90 SEC TESTED: 3/2/16 TURNS: < 2,5	
	MR 6FL STAIR 5 WATERFLOW	WE	X		-	-	TESTED: 3/2/16 TIME: < 90 SEC	
	MR 6FL STAIR 6 VALVE TAMPER	· VT	X			-	TESTED: 3/2/16 TURNS: < 2.5	
	MR 7FL STAIR 5 WATERFLOW	WF	X		Х		TESTED: 3/2/16 TIME: < 90 SEC	
	MR 7FL STAIR 5 VALVE TAMPER MR 8FL STAIR 5 WATERFLOW	VT. WF	X	\$	X		TESTED: 3/2/16 TURNS: < 2.5 TESTED: 3/2/16 TIME: < 90 SEC	
2.1	MR 8FL STAIR 5 VALVE TAMPER	VT					TESTED: 3/2/16 TURNS: < 2.5	
	MR 9FL STAIR 5 WATERFLOW	WF	X		Х	Х	TESTED: 3/2/16 TIME: ≤ 90 SEC	
	MR 9FL STAIR 5 VALVE TAMPER	- VT	Х				TESTED: 3/2/16 TURNS: < 2.5	
	MR 10FL STAIR 5 WATERFLOW	WF	ΙX				TESTED: 3/2/16 TIME: < 90 SEC	
	MR 10FL STAIR 5 VALVE TAMPER MR PH STAIR 5 WATERFLOW	VT WF	X	1 (1 d) 14 (g)	X		TESTED: 3/2/16 TURNS: < 2.5 TESTED: 3/2/16 TIME: < 90 SEC	
	MR PH STAIR 5 VALVE TAMPER	УT	X	2	X		TESTED: 3/2/16 TURNS: < 2.5	
	MR L LVL ELEVATOR F1 DOOR RELEASE RELAY	CR.	X	e de la composition della comp	SAME AND	Service.	TESTED: 3/10/16	
	MR L LEVEL RESTAURANT MECH. ROOM FSD RELAY	CR	X	1,040			TESTED: 2/25/16	
	MR L LEVEL RESTAURANT HP-3 SHUTDOWN RELAY MR L LEVEL RESTAURANT HP-2 SHUTDOWN RELAY	CR	X				TESTED: 3/17/16 TESTED: 3/17/16	
	MR L LEVEL RESTAURANT HP-1 SHUTDOWN RELAY	CR	x		- 14-3	-200	TESTED: 3/17/16	
4020182	MR L LEVEL RESTAURANT HP-4 SHUTDOWN RELAY	CR	X	shapinan.			TESTED: 3/17/16	ii ee
4020184	MR L LEVEL RESTAURANT MUSIC SHUTDOWN RELA	CR	X	- Section			TESTED: 3/9/16	
M020185	MR L'LEVEL RESTAURANT KITCHEN HOOD ANSUL	ĊТ.	х	4.3	1	v	TESTED: 3/3/16 (SHORTED MODULE ONLY)	
	MR L LEVEL RESTAURANT HP-5 SHUTDOWN RELAY	CR	X		- 1255.53 - 1255.73		TESTED: 3/17/16	
		0.228	1497	12.3			TESTED: 3/3/16	
	MR L LEVEL RESTAURANT SMOG HOG ANSUL	and district the same of	Х	43		X	(SHORTED MODULE ONLY)	
	MR. L. LEVEL FAN EFM1-5 SHUTDOWN RELAY MR. L. LEVEL FAN EFM1-6 SHUTDOWN RELAY	CR	X		overi Gara	10.84	TESTED: 3/15/16 TESTED: 3/15/16	
	MR L LEVEL FAN EFM1-1 SHUTDOWN RELAY	CR	X	96 or 1			JESTED: 3/15/16	
	MRILLVE STAIR 5 VON DUPRIN LOCK RELEASE	CR	X		in the second		TESTED::3/9/16	
	MR CL LEVEL FSD CL-68 CONTROL RELAY	CR	Х	:10	1	Acres many	TESTED: 2/25/16	: Til
	MR 12FL FUEL FILL LEAK DETECTION  MR L LVL FUEL PUMP RM LEAK DETECTION	CT.	X	\$12.	1		TESTED: 3/3/16 TESTED: 3/3/16	
	MR 3FL SUPPLY FSD RISER CONTROL RELAY	CR	X	,-unestig.	odela Tale	- name	TESTED: 2/25/16	
	MR 7FL ELECTRIC ROOM SMOKE DETECTOR	SD	х	and the second	X		TESTED: 2/24/16	
5020002	MR 7FL TRASH ROOM SMOKE DETECTOR	SD	X	£ - 5	X	X.	TESTED: 2/24/16	
	MR 7FL CORRIDOR @ 704 SMOKE DETECTOR	SD	X	Toward a	×	_	TESTED: 2/24/16	
THE RESERVE OF THE PERSON NAMED IN	MR 7FL CORRIDOR @ 703 SMOKE DETECTOR MR 7FL ELEV C6 & \$3 LOBBY SMOKE DETECTOR	SD SD	X	trica area	X		TESTED: 2/24/16/ TESTED: 3/9/16/ RECALLED	
	MR 7FL TELECOM ROOM SMOKE DETECTOR	SD	X	n, 7	â	and the same of	TESTED: 2/24/16/	
5020007	MR 7FL CORRIDOR @ 702 SMOKE DETECTOR	SD	X	WE'E	Х	Х	TESTED: 2/24/16	
The second second	MR 8FL ELECTRIC ROOM SMOKE DETECTOR	SD	X	20.5	X		TESTED: 2/24/16	
	MR 8FL TRASH ROOM SMOKE DETECTOR	SD	X	134			TESTED: 2/24/16 TESTED: 2/24/16	
	MR 8FL CORRIDOR @ 803 SMOKE DETECTOR	SD	X				TESTED: 2/24/16	
5020012	MR 8FL ELEV C6 & S3 LOBBY SMOKE DETECTOR	SD	X	12/20/14	Х	X	TESTED: 3/9/16, RECALLED	
-	MR 8FL TELECOM ROOM SMOKE DETECTOR	SD	X				TESTED: 2/24/16	
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		\$* n.					ennese una esta de la	
						1.	anna riilisairise atliai. Tilliotti tilliilii tilliilisaanaa aane aa ay kan ya k	
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	MR 8FL CORRIDOR @ 802 SMOKE DETECTOR	SD	X			TESTED: 2/24/16	
	MR 9FL ELECTRIC ROOM SMOKE DETECTOR	SD	X			TESTED: 2/24/16 TESTED: 2/24/16	
	MR 9FL TRASH ROOM SMOKE DETECTOR  MR 9FL CORRIDOR @ 904 SMOKE DETECTOR	SD	X	Hŵ		TESTED: 2/24/16	
	MR 9FL CORRIDOR @ 903 SMOKE DETECTOR	SD	X	Ηâ		TESTED: 2/24/16	
	MR 9FL ELEV C6 & S3 LOBBY SMOKE DETECTOR	SD	X	Х	4	TESTED: 3/9/16, RECALLED	
	MR 9FL TELECOM ROOM SMOKE DETECTOR	SD	Х	Х		TESTED: 2/24/16	
	MR 9FL CORRIDOR @ 902 SMOKE DETECTOR	SD	ΙX			TESTED: 2/24/16	
	MR 10FL ELECTRIC ROOM SMOKE DETECTOR MR 10FL TRASH ROOM SMOKE DETECTOR	SD	X	X	_	TESTED: 2/24/16 TESTED: 2/24/16	
	MR 10FL CORR. @ 1004 SMOKE DETECTOR	SD	1 x	X		TESTED: 2/24/16	
	MR 10FL CORR. @ 1003 SMOKE DETECTOR	SD	Х	Х		TESTED: 2/24/16	
	MR 10FL ELEV C6 & S3 LOBBY SMOKE DETECTOR	SD	X	Х	_	TESTED: 3/9/16, RECALLED	
	MR 10FL TELECOM ROOM SMOKE DETECTOR	SD	X	X		TESTED: 2/24/16	
	MR 10FL CORR. @ 1002 SMOKE DETECTOR  MR PH ELECTRIC ROOM SMOKE DETECTOR	SD	X	$\frac{X}{X}$		TESTED: 2/24/16 TESTED: 2/24/16	
	MR PH TRASH ROOM SMOKE DETECTOR	SD	Î	$+\frac{\hat{x}}{x}$	_	TESTED: 2/24/16	
	MR PH CORRIDOR @ PH4 SMOKE DETECTOR	SD	X	X	Х	TESTED: 2/24/16	
	MR PH CORRIDOR @ PH3 SMOKE DETECTOR	SD	X	Х		TESTED: 2/24/16	•
	MR PH ELEV C6 & S3 LOBBY SMOKE DETECTOR	SD	Ϋ́	X		TESTED: 3/9/16, RECALLED	
	MR PH TELECOM ROOM SMOKE DETECTOR MR PH CORRIDOR @ PH2 SMOKE DETECTOR	SD SD	X	X	_	TESTED: 2/24/16 TESTED: 2/24/16	
	MR 12FL FAN ROOM SMOKE DETECTOR	SD	Î	<del>-  </del> â	-	TESTED: 2/24/16	
	MR 12FL EMERGENCY ELECTRIC RM SMOKE	SD	X	X		TESTED: 2/24/16	
05020038	MR 12FL ELECTRIC ROOM SMOKE DETECTOR	SD	Х	X		TESTED: 2/24/16	
	MR 12FL MECHANICAL RM SMOKE DETECTOR	SD	X	X	_	TESTED: 2/24/16	
	MR 12FL MECHANICAL RM SMOKE DETECTOR MR 12FL BOILER ROOM SMOKE DETECTOR	SD SD	X	X		TESTED: 2/24/16 TESTED: 2/24/16	
	MR 12FL BOILER ROOM SMOKE DETECTOR	SD	<del> </del>	<del>    x</del>		TESTED: 2/24/16	
	MR 12FL BOILER ROOM SMOKE DETECTOR .	SD	Î			TESTED: 2/24/16	
	MR 12FL BOILER ROOM SMOKE DETECTOR	SD	Х			TESTED: 2/24/16	
	MR 12FL BOILER ROOM SMOKE DETECTOR	SD	X			TESTED: 2/24/16	
	MR 12FL FAN ROOM SMOKE DETECTOR	SD	X			TESTED: 2/24/16	
	MR 12FL BOILER ROOM SMOKE DETECTOR  MR 12FL FAN SF M12-3 FAN DUCT DETECTOR	SD DD	X	<del>-   ^</del>		TESTED: 2/24/16 TESTED: 3/7/16	
	MR 12FL FAN SF M12-4 FAN DUCT DETECTOR	DD	<del>  x  </del>	$\frac{\hat{x}}{\hat{x}}$		TESTED: 3/7/16	
05020050	MR 12FL FAN SF M12-2 FAN DUCT DETECTOR	DD	Х	X	Х	TESTED: 3/7/16	
	MR 13FL ELEV MACH RM SMOKE DETECTOR	SD	X	X		TESTED: 3/9/16, RECALLED	
	MR 13FL ELEV MACH RM HEAT DETECTOR	HD	X	$\frac{X}{X}$		TESTED: 3/9/16, SHUNTED TESTED: 3/9/16, SHUNTED	
	MR 13FL ELEV MACH RM HEAT DETECTOR MR 13FL ELEV MACH RM HEAT DETECTOR	HD	Î	┤â		TESTED: 3/9/16, SHUNTED	
	MR 12FL FAN AC M12-1 DUCT DETECTOR	DD	Î	$\frac{\hat{x}}{x}$		TESTED: 3/7/16	
05020125	MR 13FL ELEV MACH RM HEAT DETECTOR	HD	Х	Х	Х	TESTED: 3/9/16, SHUNTED	
	MR 7FL SUP FSD M7-1 CLOSED STATUS	CT	X		↓_	TESTED: 2/25/16	
	MR 7FL EXH FSD M7-2 CONTROL MODULE		X		-	TESTED: 2/25/16	
	MR 8FL SUP FSD M8-1 CLOSED STATUS MR 8FL EXH FSD M8-2 CONTROL MODULE	CT CR	X		+	TESTED: 2/25/16  TESTED: 2/25/16	
	MR 9FL SUP FSD M9-1 CLOSED STATUS	CT	x		T	TESTED: 2/25/16	
05020131	MR 9FL EXH FSD M9-2 CONTROL MODULE	CR	Х		匚	TESTED: 2/25/16	
	MR 10FL SUP FSD M10-1 CLOSED STATUS	CT	X		<u> </u>	TESTED: 2/25/16	
	MR 10FL EXH FSD M10-2 CONTROL MODULE MR PH SUP FSD MPH-1 CLOSED STATUS	CR	X		┼	TESTED: 2/25/16 TESTED: 2/25/16	
	MR PH EXH FSD MPH-2 CONTROL MODULE	CR	Î	$\dashv$	+-	TESTED: 2/25/16	
	MR 12FL EXHAUST FANS LOW SPEED RELAY	CR	X			TESTED: 2/25/16	
	MR 12FL FAN SF M12-3 POWER DISCONNECT	CT	X			TESTED: 3/3/16	
	MR 12FL FAN AC M12-1 POWER DISCONNECT	CT	X		1.	TESTED: 3/3/16	
	MR 12FL GENERATOR LOW FUEL LEVEL MR 12FL FAN EF M12-19 POWER DISCONNECT	CT CT	X X		<del> ×</del>	TESTED: 3/3/16  TESTED: 3/3/16	
	MR 12FL FAN EF M12-19 FOWER DISCONNECT	CT	â	$\dashv$	$\vdash$	TESTED: 3/3/16	
	MR 12FL GENERATOR IS RUNNING	CT	X		X	TESTED: 3/3/16	
	MR 12FL GENERATOR IS IN TROUBLE	CT	X		X	TESTED: 3/3/16	
	MR 12FL FAN SF M12-3 'ON' MODULE	CT	X			TESTED: 2/25/16	
	MR 12FL FAN SF M12-3 'OFF' MODULE MR 12FL FAN AC M12-1 'ON' MODULE	CT CT	X		+	TESTED: 2/25/16 TESTED: 2/25/16	
	MR 12FL FAN AC M12-1 ON MODULE	CT	<del>2</del>	$\dashv$	+	TESTED: 2/25/16	
	MR 12FL FAN EF M12-19 'ON' MODULE	СТ	x	-		TESTED: 2/25/16	
						· · · · · · · · · · · · · · · · · · ·	

		,	<b></b>				T	-
	MR 12FL FAN EF M12-19 'OFF' MODULE	CT	X				TESTED: 2/25/16	_
05020164	MR 12FL FAN SF M12-2 'ON' MODULE	СТ	X	L	<u> </u>		TESTED: 2/25/16	
05020165	MR 12FL FAN SF M12-2 'OFF' MODULE	CT	X		<u> </u>		TESTED: 2/25/16	
05020167	MR 13FL ELEV MACH RM PRIMARY RECALL	CR	X			<u> </u>	TESTED: 3/9/16	
05020168	MR 13FL ELEV MACH RM ALTERNATE RECALL	CR	Х		L	<u> </u>	TESTED: 3/9/16	
05020169	MR 13FL ELEV MACH RM FIRE HAT OUTPUT	CR	Х				TESTED: 3/9/16	
05020171	MR 13FL ELEV C6 & S3 SHUNT POWER TROUBLE	CT	X			Π	TESTED: 3/9/16	
05020172	ELEV C6 FIREFIGHTER'S PHONE	CC	X	T			TESTED: 3/4/16	
05020173	ELEV S3 FIREFIGHTER'S PHONE	CC	Х			1	TESTED: 3/4/16	1
05020174	ELEV CAB C6 SPEAKER TROUBLE A92	CC	Х				TESTED: 3/8/16	1
05020175	ELEV CAB S3 SPEAKER TROUBLE A93	CC	X		l		TESTED: 3/8/16	1
05020176	GENERATOR ROOM FIREFIGHTER'S PHONE	CC	X			<b>†</b>	TESTED: 3/4/16	1 ·
05020178	MR 12FL FAN SF M12-1 'ON' MODULE	СТ	X			1	TESTED: 2/25/16	
05020179	MR 12FL FAN SF M12-1 'OFF' MODULE	СТ	X		$\overline{}$	†	TESTED: 2/25/16	
	MR 12FL FAN SF M12-1 POWER DISCONNECT	СТ	X	$\vdash$		†	TESTED: 3/3/16	
	MR 12FL GENERATOR RUPTURE BASIN	СТ	X	_	<del>                                     </del>	x	TESTED: 3/3/16	
	MR 12FL STAIR5 RELIEF FSD CONTROL RELAY	CR	X	<del>                                     </del>	$\vdash$		TESTED: 2/25/16	1
	MR 12FL STAIR5 RELIEF FSD OPEN STATUS	CT	X	$\vdash$	<del></del>	<del>                                     </del>	TESTED: 2/25/16	·
	MR 12FL STAIR6 RELIEF FSD OPEN STATUS	CT	X		⊢	├	TESTED: 2/25/16	1
	MR 12FL STAIR6 RELIEF FSD CONTROL RELAY	CR	x	-	$\vdash$	├	TESTED: 2/25/16	1
	5FL ELECTRICAL ROOM SMOKE DETECTOR	SD	x	-	$\overline{}$	┰	TESTED: 2/24/16	1
	·			_			TESTED: 2/24/16	ļ
	5FL TRASH ROOM SMOKE DETECTOR	SD	X	-				
	5FL CORRIDOR AT #5J SMOKE DETECTOR	SD	X				TESTED: 2/24/16	
	5FL CORRIDOR AT #5H SMOKE DETECTOR	SD	X				TESTED: 2/24/16	
	5FL ELEVATOR S1 LOBBY SMOKE DETECTOR	SD	X			<u> </u>	TESTED: 3/14/16, RECALLED	
	5FL CORRIDOR AT #5E SMOKE DETECTOR	SD	X	L	_		TESTED: 2/24/16	
	5FL CORRIDOR AT ELEV. SMOKE DETECTOR	SD	Х	L			TESTED: 2/24/16	
	5FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR	SD	Х				TESTED: 3/14/16, RECALLED	
	5FL CORRIDOR AT #5D SMOKE DETECTOR	SD	Х				TESTED: 2/24/16	
06020010	5FL CORRIDOR AT #5C SMOKE DETECTOR	SD	Х				TESTED: 2/24/16	
06020011	6FL ELECTRICAL ROOM SMOKE DETECTOR	SD	Х		X	X	TESTED: 2/23/16	
06020012	6FL TRASH ROOM SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/23/16	
06020013	6FL CORRIDOR AT #6J SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/23/16	
06020014	6FL CORRIDOR AT #6H SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/23/16	
06020015	6FL ELEVATOR S1 LOBBY SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 3/16/16, RECALLED	
06020016	6FL CORRIDOR AT #6E SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/23/16	
	6FL CORRIDOR AT ELEV. SMOKE DETECTOR	SD	Х		_		TESTED: 2/23/16	
	6FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR	SD	Х				TESTED: 3/14/16, RECALLED	
	6FL CORRIDOR AT #6D SMOKE DETECTOR	SD	X	$\vdash$	X		TESTED: 2/23/16	
	6FL CORRIDOR AT #6C SMOKE DETECTOR	SD	X	Н			TESTED: 2/23/16	
	7FL ELECTRICAL ROOM SMOKE DETECTOR	SD	$\frac{\hat{x}}{x}$				TESTED: 2/23/16	
	7FL TRASH ROOM SMOKE DETECTOR	SD	x	$\vdash$			TESTED: 2/23/16	
	7FL CORRIDOR AT #7J SMOKE DETECTOR	SD	$\frac{\hat{x}}{x}$	-1			TESTED: 2/23/16	·
	7FL CORRIDOR AT #7H SMOKE DETECTOR	SD	x			_	TESTED: 2/23/16	
	7FL ELEVATOR S1 LOBBY SMOKE DETECTOR	SD	x	-			TESTED: 3/16/16, RECALLED	
				-			TESTED: 2/23/16	
	7FL CORRIDOR AT #7E SMOKE DETECTOR	SD	X				TESTED: 2/23/16	
	7FL CORRIDOR AT ELEV. SMOKE DETECTOR	SD	X	-				
	7FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR	SD	X				TESTED: 3/14/16, RECALLED	
	7FL CORRIDOR AT #7D SMOKE DETECTOR	SD	Х				TESTED: 2/23/16	
	7FL CORRIDOR AT #7C SMOKE DETECTOR	SD	Х				TESTED: 2/23/16	
	8FL ELECTRICAL ROOM SMOKE DETECTOR	SD	Х				TESTED: 2/23/16	
	8FL TRASH ROOM SMOKE DETECTOR	SD	X				TESTED: 2/23/16	
	8FL CORRIDOR AT #8J SMOKE DETECTOR	SD	Х			_	TESTED: 2/23/16	
	8FL CORRIDOR AT #8H SMOKE DETECTOR	SD	Х				TESTED: 2/23/16	
	8FL ELEVATOR S1 LOBBY SMOKE DETECTOR	SD	Х				TESTED: 3/16/16, RECALLED	
	8FL CORRIDOR AT #8E SMOKE DETECTOR	SD	Х				TESTED: 2/23/16	
	8FL CORRIDOR AT ELEV. SMOKE DETECTOR	SD	Χ		$\overline{}$		TESTED: 2/23/16	
06020038	8FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR	SD	Х				TESTED: 3/14/16, RECALLED	
06020039	8FL CORRIDOR AT #8D SMOKE DETECTOR	SD	Х	T	Х	Х	TESTED: 2/23/16	
06020040	8FL CORRIDOR AT #8C SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/23/16	
	9FL ELECTRICAL ROOM SMOKE DETECTOR	SD	Х		Х		TESTED: 2/23/16	
	9FL TRASH ROOM SMOKE DETECTOR	SD	Х				TESTED: 2/23/16	
	9FL CORRIDOR AT #9J SMOKE DETECTOR	SD	X				TESTED: 2/23/16	
	9FL CORRIDOR AT #9J SMOKE DETECTOR	SD	X	-	$\mathbf{x}$		TESTED: 2/23/16	
	9FL CORRIDOR AT #9H SMOKE DETECTOR	SD	X	$\neg$			TESTED: 2/23/16	
	9FL CORRIDOR AT #9H SMOKE DETECTOR	SD	$\hat{\mathbf{x}}$				TESTED: 2/23/16	
					لننا			

00000047	TOEL ELEVATOR STLORRY SMOKE DETECTOR	60	TV	T	<b>-</b>	~	TESTED: 3/46/46 BECALLED
	9FL ELEVATOR S1 LOBBY SMOKE DETECTOR  9FL CORRIDOR AT #9E SMOKE DETECTOR	SD SD	₩.	-	Ϋ́		TESTED: 3/16/16, RECALLED TESTED: 2/23/16
	19FL CORRIDOR AT #9E SMOKE DETECTOR		\ <del>^</del>	1—	X		
	<u> </u>	SD	1X	-	X	_	TESTED: 2/23/16
	9FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR	SD	X	$\vdash$	Х		TESTED: 3/14/16, RECALLED
	9FL CORRIDOR AT #9D SMOKE DETECTOR	SD	X		X		TESTED: 2/23/16
<del></del>	9FL CORRIDOR AT #9D SMOKE DETECTOR	SD	X		X		TESTED: 2/23/16
06020053	10FL ELECTRICAL ROOM SMOKE DETECTOR	SD	I X		Х	Х	TESTED: 2/23/16
6020054	10FL TRASH ROOM SMOKE DETECTOR	SD	X		Χ	X	TESTED: 2/23/16
06020055	10FL CORRIDOR AT #10J SMOKE DETECTOR	SD	X		X	Х	TESTED: 2/23/16
06020056	10FL CORRIDOR AT #10J SMOKE DETECTOR	SD	X		Х	Х	TESTED: 2/23/16
06020057	10FL CORRIDOR AT #10H SMOKE DETECTOR	SD	X		Х	Х	TESTED: 2/23/16
06020058	10FL CORRIDOR AT #10H SMOKE DETECTOR	SD	X		Х	Х	TESTED: 2/23/16
	10FL ELEVATOR S1 LOBBY SMOKE DETECTOR	SD	X		X	_	TESTED: 3/14/16, RECALLED
	10FL CORRIDOR AT #10E SMOKE DETECTOR	SD	X		X		TESTED: 2/23/16
	10FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	<del>  x</del>	$\vdash$	$\hat{\mathbf{x}}$		TESTED: 2/23/16
	10FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR	SD	† <del>☆</del>	$\vdash$	x	_	TESTED: 3/14/16, RECALLED
	10FL CORRIDOR AT #10D SMOKE DETECTOR	SD	tŝ	-	Ŷ		TESTED: 2/23/16
	10FL CORRIDOR AT #10D SMOKE DETECTOR	SD	X	$\vdash$	X		TESTED: 2/23/16
	11FL ELECTRICAL ROOM SMOKE DETECTOR	SD	X		X		TESTED: 2/23/16
	11FL TRASH ROOM SMOKE DETECTOR	SD	X		X		TESTED: 2/23/16
	11FL CORRIDOR AT #11J SMOKE DETECTOR	SD	X.	$\sqcup$	X		TESTED: 2/23/16
	11FL CORRIDOR AT #11J SMOKE DETECTOR	SD	Х	igsquare	Х		TESTED: 2/23/16
06020069	11FL CORRIDOR AT #11H SMOKE DETECTOR	SD	X	$oxed{\Box}$	Χ	_	TESTED: 2/23/16
06020070	11FL CORRIDOR AT #11H SMOKE DETECTOR	SD	X		X	Х	TESTED: 2/23/16
06020071	11FL ELEVATOR S1 LOBBY SMOKE DETECTOR	SD	X		X	Х	TESTED: 3/16/16, RECALLED
06020072	11FL CORRIDOR AT #11E SMOKE DETECTOR	SD	X		X	Х	TESTED: 2/23/16
	11FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	X		X		TESTED: 2/23/16
	11FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR	SD	X		X		TESTED: 3/14/16, RECALLED
	11FL CORRIDOR AT #11D SMOKE DETECTOR	SD	Î	<del>                                     </del>	χ̈́		TESTED: 2/23/16
	11FL CORRIDOR AT #11D SMOKE DETECTOR	SD		╌┤	Ŷ		TESTED: 2/23/16
			Ϋ́	┝			
	12FL ELECTRICAL ROOM SMOKE DETECTOR	SD	X	$\vdash \vdash$	X		TESTED: 2/23/16
	12FL TRASH ROOM SMOKE DETECTOR	SD	X		X		TESTED: 2/23/16
	12FL CORRIDOR AT #12J SMOKE DETECTOR	SD	Х		<u> </u>		TESTED: 2/23/16
06020080	12FL CORRIDOR AT #12H SMOKE DETECTOR	SD	X		<u> </u>		TESTED: 2/23/16
06020081	12FL ELEVATOR S1 LOBBY SMOKE DETECTOR	SD	X		X	Χ	TESTED: 3/16/16, RECALLED
06020082	12FL CORRIDOR AT #12E SMOKE DETECTOR	SD	X		X	Х	TESTED: 2/23/16
06020083	12FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	X		Х	Х	TESTED: 2/23/16
06020084	12FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR	SD	Х		X	Х	TESTED: 3/14/16, RECALLED
	12FL CORRIDOR AT #12D SMOKE DETECTOR	SD	X		X		TESTED: 2/23/16
	12FL CORRIDOR AT #12C SMOKE DETECTOR	SD	X	$\vdash$	$\hat{\mathbf{x}}$		TESTED: 2/23/16
	14FL ELECTRICAL ROOM SMOKE DETECTOR	SD	x	-	χÌ		TESTED: 2/23/16
	14FL TRASH ROOM SMOKE DETECTOR	SD	Ŷ	Н	χĺ		TESTED: 2/23/16
			_	-	_		
	14FL CORRIDOR AT #14J SMOKE DETECTOR	SD	X		X.		TESTED: 2/23/16
	14FL CORRIDOR AT #14H SMOKE DETECTOR	SD	X	$\vdash$	X.		TESTED: 2/23/16
	14FL ELEVATOR S1 LOBBY SMOKE DETECTOR	SD	X		X		TESTED: 3/16/16, RECALLED
	14FL CORRIDOR AT #14E SMOKE DETECTOR	SD	Х		X		TESTED: 2/23/16
6020093	14FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	X		Х		TESTED: 2/23/16
6020094	14FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR	SD	X		Х	Х	TESTED: 3/14/16, RECALLED
6020095	14FL CORRIDOR AT #14D SMOKE DETECTOR	SD	X		X	X	TESTED: 2/23/16
6020096	14FL CORRIDOR AT #14C SMOKE DETECTOR	SD	Х		X	$\mathbf{x}$	TESTED: 2/23/16
	15FL ELECTRICAL ROOM SMOKE DETECTOR	SD	Х		Х		TESTED: 2/23/16
	15FL TRASH ROOM SMOKE DETECTOR	SD	X	-	X		TESTED: 2/23/16
	15FL CORRIDOR AT #15J SMOKE DETECTOR	SD	Ϋ́	-	χÌ		TESTED: 2/23/16
	15FL CORRIDOR AT #155 SMOKE DETECTOR	SD	ΙŶ	-+	$\overline{}$	- : : . 1	TESTED: 2/23/16
		~			<del>\( \)</del>	$\overline{}$	
	15FL ELEVATOR S1 LOBBY SMOKE DETECTOR	SD	X		<del>X</del>		TESTED: 3/14/16, RECALLED
	15FL CORRIDOR AT #15E SMOKE DETECTOR	SD	X		쑀		TESTED: 2/23/16
	15FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	X		ХI		TESTED: 2/23/16
	15FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR	_SD_	X		X		TESTED: 3/14/16, RECALLED
	15FL CORRIDOR AT #15D SMOKE DETECTOR	SD	X		Х		TESTED: 2/23/16
	15FL CORRIDOR AT #15C SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/23/16
		CT	X				TESTED: 2/24/16
6020106	5FL SUPPLY FSD 5-1 CLOSED STATUS	U I					
06020106 06020126 .	5FL SUPPLY FSD 5-1 CLOSED STATUS 5FL SUPPLY FSD 5-2 CLOSED STATUS	CT	Х	T	-7		TESTED: 2/24/16
06020106 06020126 06020127		CT		$\dashv$	$\dashv$		TESTED: 2/24/16 TESTED: 2/24/16
06020106 06020126 06020127 06020128	5FL SUPPLY FSD 5-2 CLOSED STATUS 5FL EXHAUST FSD 5-3 CONTROL MODULE	CT CR	Х		_		TESTED: 2/24/16
06020106 06020126 06020127 06020128 06020129	5FL SUPPLY FSD 5-2 CLOSED STATUS	CT					

		·						
06020132	7FL SUPPLY FSD 7-1 CLOSED STATUS	CT	X				TESTED: 2/24/16	
06020133	7FL SUPPLY FSD 7-2 CLOSED STATUS	CT	Х			T	TESTED: 2/24/16	
06020134	7FL EXHAUST FSD 7-3 CONTROL MODULE	CR	Х			_	TESTED: 2/24/16	
	8FL SUPPLY FSD 8-1 CLOSED STATUS	CT	X		+		TESTED: 2/24/16	
				<del>  -</del>		-		
06020136	8FL SUPPLY FSD 8-2 CLOSED STATUS	СТ	Х				TESTED: 2/24/16	
06020137	8FL EXHAUST FSD 8-3 CONTROL MODULE	CR	X	"		l'	TESTED: 2/24/16	
	9FL SUPPLY FSD 9-1 CLOSED STATUS	СТ	X			一.	TESTED: 2/24/16	
				<del>                                     </del>		~~-		
	9FL SUPPLY FSD 9-2 CLOSED STATUS	СТ	X		_		TESTED: 2/24/16	
06020140	9FL EXHAUST FSD 9-3 CONTROL MODULE	CR	X		1	ľ	TESTED: 2/24/16	
06020141	10FL SUPPLY FSD 10-1 CLOSED STATUS	СТ	X				TESTED: 2/24/16	
		CT	X	$\vdash$	+		TESTED: 2/24/16	
	10FL SUPPLY FSD 10-2 CLOSED STATUS		_			_		
06020143	10FL EXHAUST FSD 10-3 CONTROL MODULE	CR	Х		- 1		TESTED: 2/24/16	
06020144	11FL SUPPLY FSD 11-1 CLOSED STATUS	CT	Х	T		7	TESTED: 2/24/16	
	11FL SUPPLY FSD 11-2 CLOSED STATUS	CT	Х	<del></del>		+	TESTED: 2/24/16	
	11FL EXHAUST FSD 11-3 CONTROL MODULE	CR	X			_	FESTED: 2/24/16	
06020147	12FL SUPPLY FSD 12-1 CLOSED STATUS	CT	X		- 1	- 1	ΓESTED: 2/24/16	
06020148	12FL SUPPLY FSD 12-2 CLOSED STATUS	CT	X			1	TESTED: 2/24/16	
		CR	X				ESTED: 2/24/16	
	12FL EXHAUST FSD 12-3 CONTROL MODULE			_		_		
06020150	14FL SUPPLY FSD 14-1 CLOSED STATUS	CT	Х			_	TESTED: 2/24/16	
06020151	14FL SUPPLY FSD 14-2 CLOSED STATUS	CT	Х			T	FESTED: 2/24/16	
	14FL EXHAUST FSD 14-3 CONTROL MODULE	CR	X	<del></del>	$\dashv$		ESTED: 2/24/16	
				<del></del>				
	15FL SUPPLY FSD 15-1 CLOSED STATUS	СТ	X	$oxed{oxed}$		_	ESTED: 2/24/16	
06020154	15FL SUPPLY FSD 15-2 CLOSED STATUS	CT	Х	T	1	ľ	ESTED: 2/24/16	
	15FL EXHAUST FSD 15-3 CONTROL MODULE	CR	Х				ESTED: 2/24/16	
				<del>  -</del> ,	<del>, I ,</del>			
	16FL ELECTRICAL ROOM SMOKE DETECTOR	SD	Х				TESTED: 2/23/16	
07020002	16FL TRASH ROOM SMOKE DETECTOR	SD	X	1:	<u> </u>	<u>C</u>	TESTED: 2/23/16	
07020003	16FL CORRIDOR AT #16J SMOKE DETECTOR	SD	X		x >	7	ESTED: 2/23/16	
	16FL CORRIDOR AT #16H SMOKE DETECTOR	SD	X				ESTED: 2/23/16	
						_		
07020005	16FL ELEVATOR S1 LOBBY SMOKE DETECTOR	SD	Х	1.2	x   >	ΚŢ	ESTED: 3/16/16, RECALLED	
07020006	16FL CORRIDOR AT #16E SMOKE DETECTOR	SD	X		x D	7 T	ESTED: 2/23/16	
	16FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	Х				ESTED: 2/23/16	
	16FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR	SD	X				ESTED: 3/14/16, RECALLED	
07020009	16FL CORRIDOR AT #16D SMOKE DETECTOR	SD	X		x   >	< [1	ESTED: 2/23/16	
07020010	16FL CORRIDOR AT #16C SMOKE DETECTOR	SD	X		X D	7	ESTED: 2/23/16	
	17FL ELECTRICAL ROOM SMOKE DETECTOR	SD	X			_	ESTED: 2/23/16	
07020012	17FL TRASH ROOM SMOKE DETECTOR	SD	Х				ESTED: 2/23/16	
07020013	17FL CORRIDOR AT #17J SMOKE DETECTOR	SD	Х	. 10	x   >	(   T	ESTED: 2/23/16	
	17FL CORRIDOR AT #17H SMOKE DETECTOR	SD	Х	,	x lo	7 17	ESTED: 2/23/16	
	17FL ELEVATOR S1 LOBBY SMOKE DETECTOR	SD	Х				ESTED: 3/16/16, RECALLED	
07020016	17FL CORRIDOR AT #17E SMOKE DETECTOR	SD	X		X   )		ESTED: 2/23/16	
07020017	17FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	Х		x 3	7 17	ESTED: 2/23/16	
		SD	x			_	ESTED: 3/14/16, RECALLED	
	17FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR							
07020019	17FL CORRIDOR AT #17D SMOKE DETECTOR	SD	Х		ΧL	$\Box$	ESTED: 2/23/16	
07020020	17FL CORRIDOR AT #17C SMOKE DETECTOR	SD	Х		ΧĪ	₹Ti	ESTED: 2/23/16	
	18FL ELECTRICAL ROOM SMOKE DETECTOR	SD	$\hat{\mathbf{x}}$				ESTED: 2/23/16	
	18FL TRASH ROOM SMOKE DETECTOR	SD	Х		_		ESTED: 2/23/16	
07020023	18FL CORRIDOR AT #18J SMOKE DETECTOR	SD	Х	[ 7	x >	<u>(  </u> 1	ESTED: 2/23/16	
07020024	18FL CORRIDOR AT #18H SMOKE DETECTOR	SD	Х		x   >	(Ti	ESTED: 2/23/16	
	18FL ELEVATOR S1 LOBBY SMOKE DETECTOR	SD	$\hat{\mathbf{x}}$				ESTED: 3/16/16, RECALLED	
		30						
07020026	18FL CORRIDOR AT #18E SMOKE DETECTOR	SD	Х				ESTED: 2/23/16	
	18FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	Х		( )	(Ti	ESTED: 2/23/16	
	18FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR	SD	X			_	ESTED: 3/14/16, RECALLED	
	18FL CORRIDOR AT #18D SMOKE DETECTOR	SD	X				ESTED: 2/23/16	
07020030	18FL CORRIDOR AT #18C SMOKE DETECTOR	SD	X		< 🗇	(Ti	ESTED: 2/23/16	
	19FL ELECTRICAL ROOM SMOKE DETECTOR	SD	Х				ESTED: 2/23/16	
			_		_			•
	19FL TRASH ROOM SMOKE DETECTOR	SD	X				ESTED: 2/23/16	
07020033	19FL CORRIDOR AT #19J SMOKE DETECTOR	SD	Х	7	(   )		ESTED: 2/23/16	
07020034	19FL CORRIDOR AT #19A SMOKE DETECTOR	SD	Х	13		(Ti	ESTED: 2/23/16	
	19FL CORRIDOR AT #19H SMOKE DETECTOR	SD	$\hat{\mathbf{x}}$	_			ESTED: 2/23/16	
	19FL CORRIDOR AT #19G SMOKE DETECTOR	SD	X				ESTED: 2/23/16	
	19FL ELEVATOR S1 LOBBY SMOKE DETECTOR	SD	Х		$\langle \Box \rangle$	( T	ESTED: 3/16/16, RECALLED	
07020037	19FL CORRIDOR AT #19E SMOKE DETECTOR	SD	Х				ESTED: 2/23/16	
							ESTED: 2/23/16	
07020038		C.C.				. 11		
07020038 07020039	19FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	X					
07020038 07020039		SD SD	<del>-</del>				ESTED: 3/14/16, RECALLED	
07020038 07020039 07020040	19FL CORRIDOR AT ELEV SMOKE DETECTOR 19FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR	SD	Х	>		7	ESTED: 3/14/16, RECALLED	
07020038 07020039 07020040 07020041	19FL CORRIDOR AT ELEV SMOKE DETECTOR		_	)	( ) ( )	[ ] [ ]		

07020044   20FL TRASH ROOM SMOKE DETECTOR	077000040	TOOT IS FORDION BOOM SHOKE DETECTOR		1 37		1 1/2	1 37	TECTED OCCUS
07020045   20FL CORRIDOR AT #220 SMOKE DETECTOR			SD	X	<u> </u>	X	<u> </u>	TESTED: 2/23/16
07020048   20FL CORRIDOR AT #20A SMOKE DETECTOR	07020044	20FL TRASH ROOM SMOKE DETECTOR			L			
07020047   20FL CORRIDOR AT #20H SMOKE DETECTOR	07020045	20FL CORRIDOR AT #20J SMOKE DETECTOR	SD	X	ŀ	X	X.	TESTED: 2/23/16
07020048   20FL CORRIDOR AT #20G SMOKE DETECTOR	07020046	20FL CORRIDOR AT #20A SMOKE DETECTOR	SD	X		Х	Х	TESTED: 2/23/16
07020048   20FL CORRIDOR AT #20G SMOKE DETECTOR			SD			$\overline{\mathbf{x}}$	х	TESTED: 2/23/16
					-			
07020051   ZOFL CORRIDOR AT #20E SMOKE DETECTOR					<b>├</b> ──			I
07020051   20FL ELEVATOR CA & C. SLOBBY SMOKE DETECTOR				_	_	_	_	TESTED: 3/14/16, RECALLED
07020052   20FL CENATOR C4 & C5 LOBBY SMOKE DETECTOR	07020050	20FL CORRIDOR AT #20E SMOKE DETECTOR	SD			LX	LX.	TESTED: 2/23/16
07020054   20FL CORRIDOR AT #20D SMOKE DETECTOR	07020051	20FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	X		Х	Х	TESTED: 2/23/16
07020054   20FL CORRIDOR AT #20D SMOKE DETECTOR	07020052	20FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR	SD	X		X	Х	TESTED: 3/14/16, RECALLED
077020054   20FL CORRIDOR AT #20C SMOKE DETECTOR		\$			1		_	
07020055								
07020056								
07020057   ZIFL CORRIDOR AT #214 SMOKE DETECTOR	07020055	21FL ELECTRICAL ROOM SMOKE DETECTOR	SD	X		Х	Х	TESTED: 2/23/16
07020057   ZIFL CORRIDOR AT #214 SMOKE DETECTOR	07020056	21FL TRASH ROOM SMOKE DETECTOR	SD	X		Х	Х	TESTED: 2/23/16
	07020057	21FL CORRIDOR AT #21J SMOKE DETECTOR	SD			X	X	TESTED: 2/23/16
07020059   21FL CORRIDOR AT #21H SMOKE DETECTOR				_				
07020060					$\vdash$			
07020061   21FL ELEVATOR S1 LOBBY SMOKE DETECTOR   SD   X   X   X   TESTED: 3/16   07020062   21FL CORRIDOR AT #21E SMOKE DETECTOR   SD   X   X   X   TESTED: 2/23   07020063   21FL CORRIDOR AT #21E SMOKE DETECTOR   SD   X   X   X   TESTED: 2/23   07020064   21FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR   SD   X   X   X   TESTED: 2/23   07020065   21FL CORRIDOR AT #21D SMOKE DETECTOR   SD   X   X   X   X   TESTED: 2/23   07020066   21FL CORRIDOR AT #21C SMOKE DETECTOR   SD   X   X   X   X   TESTED: 2/23   07020067   22FL ELECTRICAL ROOM SMOKE DETECTOR   SD   X   X   X   TESTED: 2/23   07020068   22FL TRASH ROOM SMOKE DETECTOR   SD   X   X   X   TESTED: 2/23   07020069   22FL CORRIDOR AT #22L SMOKE DETECTOR   SD   X   X   X   TESTED: 2/23   07020070   22FL CORRIDOR AT #22L SMOKE DETECTOR   SD   X   X   X   TESTED: 2/23   07020071   22FL ELEVATOR S1 LOBBY SMOKE DETECTOR   SD   X   X   X   TESTED: 2/23   07020072   22FL CORRIDOR AT #22L SMOKE DETECTOR   SD   X   X   X   TESTED: 2/23   07020073   22FL CORRIDOR AT #22L SMOKE DETECTOR   SD   X   X   X   TESTED: 2/23   07020074   22FL ELEVATOR S1 LOBBY SMOKE DETECTOR   SD   X   X   X   TESTED: 2/23   07020075   22FL CORRIDOR AT #22L SMOKE DETECTOR   SD   X   X   X   TESTED: 3/16   07020075   22FL CORRIDOR AT #22L SMOKE DETECTOR   SD   X   X   X   TESTED: 3/16   07020076   22FL CORRIDOR AT #22L SMOKE DETECTOR   SD   X   X   X   TESTED: 3/16   07020077   22FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR   SD   X   X   X   TESTED: 2/23   07020078   22FL CORRIDOR AT #22L SMOKE DETECTOR   SD   X   X   X   TESTED: 2/23   07020079   22FL CORRIDOR AT #22L SMOKE DETECTOR   SD   X   X   X   TESTED: 2/23   07020076   22FL CORRIDOR AT #22L SMOKE DETECTOR   SD   X   X   X   TESTED: 2/23   07020077   22FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR   SD   X   X   X   TESTED: 2/23   07020078   23FL CORRIDOR AT #22L SMOKE DETECTOR   SD   X   X   X   TESTED: 2/23   07020079   23FL CORRIDOR AT #22L SMOKE DETECTOR   SD   X   X   X   TESTED: 2/23   07020079   23FL CORRIDOR AT #22L SMOKE DETECTOR   SD					$\sqcup$			
07020062   21FL CORRIDOR AT #21E SMOKE DETECTOR	07020060	21FL CORRIDOR AT #21G SMOKE DETECTOR	SD	X		Х	X	TESTED: 2/23/16
07020062   21FL CORRIDOR AT #21E SMOKE DETECTOR	07020061	21FL ELEVATOR S1 LOBBY SMOKE DETECTOR	SD	X		Х	X	TESTED: 3/16/16, RECALLED
07020063   21FL CORRIDOR AT ELEV SMOKE DETECTOR	07020062	21FL CORRIDOR AT #21F SMOKE DETECTOR	SD			Х	X	TESTED: 2/23/16
07020064					$\vdash \vdash$			
07020065					Н			
07020066					L			TESTED: 3/14/16, RECALLED
07020067         22FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020088         22FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020090         22FL CORRIDOR AT #22J SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23           07020071         22FL CORRIDOR AT #22H SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23           07020072         22FL CORRIDOR AT #22E SMOKE DETECTOR         SD         X         X         X TESTED: 2/23           07020073         22FL CORRIDOR AT #22E SMOKE DETECTOR         SD         X         X         X TESTED: 2/23           07020074         22FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X TESTED: 2/23           07020076         22FL CORRIDOR AT #22D SMOKE DETECTOR         SD         X         X         X TESTED: 2/23           07020077         23FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X TESTED: 2/23           07020078         23FL CORRIDOR AT #23H SMOKE DETECTOR         SD         X         X         X TESTED: 2/23           07020078         23FL CORRIDOR AT #23H SMOKE DETECTOR<	07020065	21FL CORRIDOR AT #21D SMOKE DETECTOR	SD	X		Х	Х	TESTED: 2/23/16
07020067         22FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020088         22FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020090         22FL CORRIDOR AT #22J SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23           07020071         22FL CORRIDOR AT #22H SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23           07020072         22FL CORRIDOR AT #22E SMOKE DETECTOR         SD         X         X         X TESTED: 2/23           07020073         22FL CORRIDOR AT #22E SMOKE DETECTOR         SD         X         X         X TESTED: 2/23           07020074         22FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X TESTED: 2/23           07020076         22FL CORRIDOR AT #22D SMOKE DETECTOR         SD         X         X         X TESTED: 2/23           07020077         23FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X TESTED: 2/23           07020078         23FL CORRIDOR AT #23H SMOKE DETECTOR         SD         X         X         X TESTED: 2/23           07020078         23FL CORRIDOR AT #23H SMOKE DETECTOR<	07020066	21FL CORRIDOR AT #21C SMOKE DETECTOR	SD	X	П	Х	X	TESTED: 2/23/16
07020068         22FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020069         22FL CORRIDOR AT #221 SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020070         22FL CORRIDOR AT #221 SMOKE DETECTOR         SD         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         TESTED: 2/23         07020073         22FL CORRIDOR AT #22D SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23         07020072         23FL ELECTRICAL ROOM			SD		$\vdash$	_	X	TESTED: 2/23/16
07020069         22FL CORRIDOR AT #22J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020070         22FL CORRIDOR AT #22H SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23           07020071         22FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020073         22FL CORRIDOR AT #22E SMOKE DETECTOR         SD         X         X         X         X         X         TESTED: 2/23           07020074         22FL CORRIDOR AT #22E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020075         22FL CORRIDOR AT #22D SMOKE DETECTOR         SD         X         X         TESTED: 2/23           07020076         22FL CORRIDOR AT #22D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020076         22FL CORRIDOR AT #22D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020071         23FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020079         23FL CORRIDOR AT #23J SMOKE DETECTOR         SD         X         X					$\vdash$			
07020070         22FL CORRIDOR AT #22H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020071         22FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 3/16           07020072         22FL CORRIDOR AT #22E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020073         22FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020074         22FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020076         22FL CORRIDOR AT #22D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020076         22FL CORRIDOR AT #22C SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020079         23FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020079         23FL CORRIDOR AT #23J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020080         23FL CORRIDOR AT #23H SMOKE DETECTOR         SD         X         X         X         TESTED					<b>  </b>			
07020071         125FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 3/16           07020072         125FL CORRIDOR AT #22E SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23           07020073         125FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23           07020074         125FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 3/14           07020075         125FL CORRIDOR AT #22D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020076         125FL CORRIDOR AT #22D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020077         123FL ELEVATOR M SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020079         123FL CORRIDOR AT #23H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020081         123FL CORRIDOR AT #23E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020082         123FL CORRIDOR AT #23E SMOKE DETECTOR         SD         X         X								
07020071         125FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 3/16           07020072         125FL CORRIDOR AT #22E SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23           07020073         125FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23           07020074         125FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 3/14           07020075         125FL CORRIDOR AT #22D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020076         125FL CORRIDOR AT #22D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020077         123FL ELEVATOR M SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020079         123FL CORRIDOR AT #23H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020081         123FL CORRIDOR AT #23E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020082         123FL CORRIDOR AT #23E SMOKE DETECTOR         SD         X         X	07020070	22FL CORRIDOR AT #22H SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/23/16
07020072         22FL CORRIDOR AT #22E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020073         22FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020074         22FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020075         22FL CORRIDOR AT #22D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020076         22FL CORRIDOR AT #22D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020077         23FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020079         23FL CORRIDOR AT #23J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020080         23FL CORRIDOR AT #23J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020081         23FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020082         23FL CORRIDOR AT #23E SMOKE DETECTOR         SD         X         X         X         TESTED			SD	X		Х	Х	TESTED: 3/16/16, RECALLED
07020073         22FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020074         22FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 3/14           07020076         22FL CORRIDOR AT #22D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020076         22FL CORRIDOR AT #22C SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020077         23FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020079         23FL CORRIDOR AT #23J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020080         23FL CORRIDOR AT #23J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020081         23FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020082         23FL CORRIDOR AT #23E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020083         23FL CORRIDOR AT #23E SMOKE DETECTOR         SD         X         X         X         X					$\vdash$	$\overline{}$		
07020074         22FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 3/14           07020075         22FL CORRIDOR AT #22D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020076         22FL CORRIDOR AT #22C SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020077         23FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020078         23FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020079         23FL CORRIDOR AT #23J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020080         23FL CORRIDOR AT #23J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020081         23FL CORRIDOR AT #23B SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020082         23FL CORRIDOR AT #23B SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020083         23FL CORRIDOR AT #23D SMOKE DETECTOR         SD         X         X         X         X					$\vdash$	_		
07020075         22FL CORRIDOR AT #22D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020076         22FL CORRIDOR AT #22C SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020079         23FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020079         23FL CORRIDOR AT #23J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020080         23FL CORRIDOR AT #23H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020081         23FL ELEVATOR \$1 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020082         23FL CORRIDOR AT #23E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020083         23FL CORRIDOR AT #23E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020084         23FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020085         23FL CORRIDOR AT #23C SMOKE DETECTOR         SD         X         X         X         X					Щ			
07020076         22FL CORRIDOR AT #22C SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020077         23FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23           07020078         23FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X <t< td=""><td>07020074</td><td>22FL ELEVATOR C4 &amp; C5 LOBBY SMOKE DETECTOR</td><td>SD</td><td>Х</td><td></td><td>Х</td><td>Х</td><td>TESTED: 3/14/16, RECALLED</td></t<>	07020074	22FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 3/14/16, RECALLED
07020077         23FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020078         23FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23           07020080         23FL CORRIDOR AT #23J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020081         23FL CORRIDOR AT #23H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020082         23FL CORRIDOR AT #23E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020083         23FL CORRIDOR AT #23E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020084         23FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020085         23FL CORRIDOR AT #23D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020086         23FL CORRIDOR AT #23C SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020087         24FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X	07020075	22FL CORRIDOR AT #22D SMOKE DETECTOR	SD	Х		X	Х	TESTED: 2/23/16
07020077         23FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020078         23FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23           07020080         23FL CORRIDOR AT #23J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020081         23FL CORRIDOR AT #23H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020082         23FL CORRIDOR AT #23E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020083         23FL CORRIDOR AT #23E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020084         23FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020085         23FL CORRIDOR AT #23D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020086         23FL CORRIDOR AT #23C SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020087         24FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X	07020076	22FL CORRIDOR AT #22C SMOKE DETECTOR	SD	X		X	Х	TESTED: 2/23/16
07020078         23FL TRASH ROOM SMOKE DETECTOR         SD         X         X         TESTED: 2/23           07020079         23FL CORRIDOR AT #23J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020080         23FL CORRIDOR AT #23H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020081         23FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 3/16           07020082         23FL CORRIDOR AT #23E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020083         23FL CORRIDOR AT #23E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020084         23FL CORRIDOR AT #23E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020084         23FL CORRIDOR AT #23D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020085         23FL CORRIDOR AT #23D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020087         24FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23					┝─┤			
07020079         23FL CORRIDOR AT #23J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23           07020080         23FL CORRIDOR AT #23H SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23           07020081         23FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X         X TESTED: 3/16           07020082         23FL CORRIDOR AT #23E SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23           07020083         23FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23           07020084         23FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23           07020085         23FL CORRIDOR AT #23D SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23           07020086         23FL CORRIDOR AT #23D SMOKE DETECTOR         SD         X         X         X TESTED: 2/23           07020087         24FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X TESTED: 2/23           07020088         24FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X TESTED: 2/23           07					$\vdash$			
07020080         23FL CORRIDOR AT #23H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020081         23FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X         X TESTED: 3/16.           07020082         23FL CORRIDOR AT #23E SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23.           07020083         23FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23.           07020084         23FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         X TESTED: 3/14.           07020085         23FL CORRIDOR AT #23D SMOKE DETECTOR         SD         X         X         X TESTED: 2/23.           07020086         23FL CORRIDOR AT #23D SMOKE DETECTOR         SD         X         X         X TESTED: 2/23.           07020087         24FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X TESTED: 2/23.           07020088         24FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X TESTED: 2/23.           07020089         24FL CORRIDOR AT #24H SMOKE DETECTOR         SD         X         X         X TESTED: 2/23.           07020091         24FL								
07020081         23FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 3/16.           07020082         23FL CORRIDOR AT #23E SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23.           07020083         23FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23.           07020084         23FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         X         TESTED: 3/14.           07020085         23FL CORRIDOR AT #23D SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23.           07020086         23FL CORRIDOR AT #23D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020087         24FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020088         24FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020099         24FL CORRIDOR AT #24J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020091         24FL CORRIDOR AT #24E SMOKE DETECTOR         SD </td <td>07020079</td> <td>23FL CORRIDOR AT #23J SMOKE DETECTOR</td> <td>SD</td> <td>X</td> <td></td> <td>Х</td> <td>Х</td> <td>TESTED: 2/23/16</td>	07020079	23FL CORRIDOR AT #23J SMOKE DETECTOR	SD	X		Х	Х	TESTED: 2/23/16
07020082         23FL CORRIDOR AT #23E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020083         23FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23.           07020084         23FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         X TESTED: 3/14.           07020085         23FL CORRIDOR AT #23D SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23.           07020086         23FL CORRIDOR AT #23C SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23.           07020087         24FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X TESTED: 2/23.           07020088         24FL CORRIDOR AT #24J SMOKE DETECTOR         SD         X         X         X TESTED: 2/23.           07020099         24FL CORRIDOR AT #24H SMOKE DETECTOR         SD         X         X         X TESTED: 2/23.           07020091         24FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X TESTED: 2/23.           07020092         24FL CORRIDOR AT #24E SMOKE DETECTOR         SD         X         X         X TESTED: 2/23.           07020093 <t< td=""><td>07020080</td><td>23FL CORRIDOR AT #23H SMOKE DETECTOR</td><td>SD</td><td>X</td><td></td><td>Х</td><td>Х</td><td>TESTED: 2/23/16</td></t<>	07020080	23FL CORRIDOR AT #23H SMOKE DETECTOR	SD	X		Х	Х	TESTED: 2/23/16
07020082         23FL CORRIDOR AT #23E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020083         23FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23.           07020084         23FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         X TESTED: 3/14.           07020085         23FL CORRIDOR AT #23D SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23.           07020086         23FL CORRIDOR AT #23C SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23.           07020087         24FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X TESTED: 2/23.           07020088         24FL CORRIDOR AT #24J SMOKE DETECTOR         SD         X         X         X TESTED: 2/23.           07020099         24FL CORRIDOR AT #24H SMOKE DETECTOR         SD         X         X         X TESTED: 2/23.           07020091         24FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X TESTED: 2/23.           07020092         24FL CORRIDOR AT #24E SMOKE DETECTOR         SD         X         X         X TESTED: 2/23.           07020093 <t< td=""><td></td><td></td><td>SD</td><td>х</td><td></td><td>X</td><td>Х</td><td>TESTED: 3/16/16, RECALLED</td></t<>			SD	х		X	Х	TESTED: 3/16/16, RECALLED
07020083         23FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020084         23FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         X TESTED: 3/14.           07020085         23FL CORRIDOR AT #23D SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23.           07020086         23FL CORRIDOR AT #23C SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23.           07020087         24FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23.           07020088         24FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23.           07020089         24FL CORRIDOR AT #24J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020090         24FL CORRIDOR AT #24H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020091         24FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020092         24FL CORRIDOR AT #24E SMOKE DETECTOR         SD         X         X         X					-			
07020084         23FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 3/14.           07020085         23FL CORRIDOR AT #23D SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23.           07020086         23FL CORRIDOR AT #23C SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23.           07020087         24FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23.           07020089         24FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23.           07020089         24FL CORRIDOR AT #24J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020090         24FL CORRIDOR AT #24H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020091         24FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020092         24FL CORRIDOR AT #24E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020093         24FL CORRIDOR AT #24D SMOKE DETECTOR         SD </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
07020085         23FL CORRIDOR AT #23D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020086         23FL CORRIDOR AT #23C SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23.           07020087         24FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020088         24FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020089         24FL CORRIDOR AT #24J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020090         24FL CORRIDOR AT #24H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020091         24FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020092         24FL CORRIDOR AT #24E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020093         24FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020094         24FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
07020086         23FL CORRIDOR AT #23C SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020087         24FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23.           07020088         24FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23.           07020089         24FL CORRIDOR AT #24J SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23.           07020090         24FL CORRIDOR AT #24H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020091         24FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 3/16.           07020092         24FL CORRIDOR AT #24E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020093         24FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020094         24FL CORRIDOR AT #24D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020095         24FL CORRIDOR AT #24C SMOKE DETECTOR         SD         X	07020084	23FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR	SD	X		Х	X	TESTED: 3/14/16, RECALLED
07020087         24FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020088         24FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23, 07020089         24FL CORRIDOR AT #24J SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23, 07020090         24FL CORRIDOR AT #24H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020091         24FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 3/16, 07020092         24FL CORRIDOR AT #24E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020093         24FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020094         24FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020095         24FL CORRIDOR AT #24D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020096         24FL CORRIDOR AT #24C SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020097         25FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020098         25FL TRASH ROOM SMOKE DETECTOR         SD         X	07020085	23FL CORRIDOR AT #23D SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/23/16
07020087         24FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020088         24FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23, 07020089         24FL CORRIDOR AT #24J SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23, 07020090         24FL CORRIDOR AT #24H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020091         24FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 3/16, 07020092         24FL CORRIDOR AT #24E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020093         24FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020094         24FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020095         24FL CORRIDOR AT #24D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020096         24FL CORRIDOR AT #24C SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020097         25FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020098         25FL TRASH ROOM SMOKE DETECTOR         SD         X			SD	Y		Ϋ́	X	TESTED: 2/23/16
07020088         24FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020089         24FL CORRIDOR AT #24J SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23, 07020090         24FL CORRIDOR AT #24H SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23, 07020091         24FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 3/16, 07020092         24FL CORRIDOR AT #24E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020093         24FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23, 07020094         24FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         X         TESTED: 3/14, 07020095         24FL CORRIDOR AT #24D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020096         24FL CORRIDOR AT #24C SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020097         25FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020098         25FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020099         25FL CORRIDOR AT #25J SMOKE DETECTOR					-			
07020089         24FL CORRIDOR AT #24J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020090         24FL CORRIDOR AT #24H SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23, 07020091         24FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X         X         TESTED: 3/16, 07020092         24FL CORRIDOR AT #24E SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23, 07020093         24FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23, 07020094         24FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         X         TESTED: 3/14, 07020095         24FL CORRIDOR AT #24D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020096         24FL CORRIDOR AT #24C SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020097         25FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020098         25FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020099         25FL CORRIDOR AT #25J SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23, 07020091         X<					_	$\overline{}$	_	
07020090         24FL CORRIDOR AT #24H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020091         24FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X         X         TESTED: 3/16, 07020092         24FL CORRIDOR AT #24E SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23, 07020093         24FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23, 07020094         24FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 3/14, 07020095         24FL CORRIDOR AT #24D SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020096         24FL CORRIDOR AT #24C SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020097         25FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020098         25FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020099         25FL CORRIDOR AT #25J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020100         25FL CORRIDOR AT #25H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020100         25FL CORRIDOR AT #25H SMOKE DETECTOR         SD <td>07020088</td> <td>24FL TRASH ROOM SMOKE DETECTOR</td> <td></td> <td></td> <td></td> <td><u> </u></td> <td></td> <td></td>	07020088	24FL TRASH ROOM SMOKE DETECTOR				<u> </u>		
07020091         24FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X         X TESTED: 3/16.           07020092         24FL CORRIDOR AT #24E SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23.           07020093         24FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23.           07020094         24FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         X TESTED: 3/14.           07020095         24FL CORRIDOR AT #24D SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23.           07020096         24FL CORRIDOR AT #24C SMOKE DETECTOR         SD         X         X         X TESTED: 2/23.           07020097         25FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X TESTED: 2/23.           07020098         25FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23.           07020099         25FL CORRIDOR AT #25J SMOKE DETECTOR         SD         X         X         X         X TESTED: 2/23.           07020100         25FL CORRIDOR AT #25H SMOKE DETECTOR         SD         X         X         X         X         X	07020089	24FL CORRIDOR AT #24J SMOKE DETECTOR	SD	X		Χİ	Х	TESTED: 2/23/16
07020091         24FL ELEVATOR S1 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 3/16, 07020092         24FL CORRIDOR AT #24E SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23, 07020093         24FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23, 07020094         24FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         X         TESTED: 3/14, 07020095         24FL CORRIDOR AT #24D SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23, 07020096         24FL CORRIDOR AT #24C SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020097         25FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020098         25FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020099         25FL CORRIDOR AT #25J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020100         25FL CORRIDOR AT #25H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020100         25FL CORRIDOR AT #25H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020100         25FL CORRIDOR AT #25H SMOKE DETECTOR <td>07020090</td> <td>24FL CORRIDOR AT #24H SMOKE DETECTOR</td> <td>SD</td> <td>Х</td> <td></td> <td>Х</td> <td>Х</td> <td>TESTED: 2/23/16</td>	07020090	24FL CORRIDOR AT #24H SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/23/16
07020092         24FL CORRIDOR AT #24E SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020093         24FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23, 07020094         24FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         X         TESTED: 3/14, 07020095         24FL CORRIDOR AT #24D SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23, 07020096         24FL CORRIDOR AT #24C SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23, 07020097         25FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020098         25FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020099         25FL CORRIDOR AT #25J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020100         25FL CORRIDOR AT #25H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020100         X         X         X         TESTED: 2/23, 07020100         X         X         X         X         TESTED: 2/23, 07020100         X         X         X         X         TESTED: 2/23, 07020100         X         X         X         <	07020091	24FL FLEVATOR STLOBBY SMOKE DETECTOR	SD	X	$\neg$		Х	TESTED: 3/16/16, RECALLED
07020093         24FL CORRIDOR AT ELEV SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23, 07020094         24FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         X         X         TESTED: 3/14, 07020095         24FL CORRIDOR AT #24D SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23, 07020096         24FL CORRIDOR AT #24C SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020097         25FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020098         25FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020099         25FL CORRIDOR AT #25J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020100         25FL CORRIDOR AT #25H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020100         X         X         X         TESTED: 2/23, 07020100         X         X         X         X         TESTED: 2/23, 07020100         X         X         X         X         TESTED: 2/23, 07020100         X         X         X         TESTED: 2/23, 07020100         X         X         X         X         X         X         X					-			
07020094         24FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR         SD         X         X         X         TESTED: 3/14/107020095         24FL CORRIDOR AT #24D SMOKE DETECTOR         SD         X         X         X         X         X         TESTED: 2/23/107020096         24FL CORRIDOR AT #24C SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23/107020097         25FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/107020098         25FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/107020099         25FL CORRIDOR AT #25J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/107020100         25FL CORRIDOR AT #25H SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23/107020100         25FL CORRIDOR AT #25H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/107020100         X         X         X         TESTED: 2/23/107020100         X         X         X         X         TESTED: 2/23/107020100         X         X         X         X         TESTED: 2/23/107020100         X         X         X         TESTED: 2/23/107020100         X         X         X         X         X         X         X						-		· · · · · · · · · · · · · · · · · · ·
07020095         24FL CORRIDOR AT #24D SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23/07020096         24FL CORRIDOR AT #24C SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23/07020097         25FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23/07020098         25FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/07020099         25FL CORRIDOR AT #25J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/07020100         25FL CORRIDOR AT #25H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/07020100         25FL CORRIDOR AT #25H SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23/07020100         25FL CORRIDOR AT #25H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/07020100         25FL CORRIDOR AT #25H SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23/07020100         25FL CORRIDOR AT #25H SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23/07020100         25FL CORRIDOR AT #25H SMOKE DETECTOR         SD         X         X         X         X         X         X         X<			SD	LX		<u> </u>		
07020096         24FL CORRIDOR AT #24C SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/07020097           07020097         25FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23/07020098           07020098         25FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/07020099           07020100         25FL CORRIDOR AT #25H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/07020100	07020094	24FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR	SD	X		ΧI	X	TESTED: 3/14/16, RECALLED
07020096         24FL CORRIDOR AT #24C SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/07020097           07020097         25FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23/07020098           07020098         25FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/07020099           07020109         25FL CORRIDOR AT #25J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/07020100           07020100         25FL CORRIDOR AT #25H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/07020100	07020095	24FL CORRIDOR AT #24D SMOKE DETECTOR	SD	X		Х	X	TESTED: 2/23/16
07020097         25FL ELECTRICAL ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/07020098           07020098         25FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         X         TESTED: 2/23/07020099           07020099         25FL CORRIDOR AT #25J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/07020100           07020100         25FL CORRIDOR AT #25H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/07020100					$\dashv$			
07020098         25FL TRASH ROOM SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/           07020099         25FL CORRIDOR AT #25J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/           07020100         25FL CORRIDOR AT #25H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/           07020100         25FL CORRIDOR AT #25H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/				_			_	
07020099         25FL CORRIDOR AT #25J SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020100           25FL CORRIDOR AT #25H SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23, 07020100				$\overline{}$				
07020100   25FL CORRIDOR AT #25H SMOKE DETECTOR SD X X TESTED: 2/23/								
	07020099	25FL CORRIDOR AT #25J SMOKE DETECTOR	SD	Х		ΧŢ	X	TESTED: 2/23/16
	07020100	25FL CORRIDOR AT #25H SMOKE DETECTOR	SD	Х	$\neg$	X	х	TESTED: 2/23/16
- PERSONAL DESCRIPTION OF CORP. SINDNE DELICITION - 1 OB TALLA LA LA LA CORP. SERVICIO					$\dashv$	_		TESTED: 3/16/16, RECALLED
07020102 25FL CORRIDOR AT #25H SMOKE DETECTOR SD X X X TESTED: 2/23/				_		-		
07020103 25FL CORRIDOR AT ELEV SMOKE DETECTOR SD X X TESTED: 2/23/			SD	<u> </u>		X		
07020104 25FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR SD X X X TESTED: 3/14/	07020104	25FL ELEVATOR C4 & C5 LOBBY SMOKE DETECTOR	SD	_x T		ΧĪ	_x I	TESTED: 3/14/16, RECALLED
07020105 25FL CORRIDOR AT #25D SMOKE DETECTOR SD X X TESTED: 2/23/			SD	$\mathbf{x}$		$\mathbf{x}^{\dagger}$	х	TESTED: 2/23/16
07020106   25FL CORRIDOR AT #25C SMOKE DETECTOR   SD   X   X   X   X   TESTED: 2/23/								
								TESTED: 2/24/16
07020127   16FL SUPPLY FSD 16-2 CLOSED STATUS   CT   X     TESTED: 2/24/	07020127	16FL SUPPLY FSD 16-2 CLOSED STATUS	CT	X	Т			TESTED: 2/24/16

07020128	16FL EXHAUST FSD 16-3 CONTROL MODULE	CR	Τx				TESTED: 2/24/16
07020129	17FL SUPPLY FSD 17-1 CLOSED STATUS	CT	X			<del>                                     </del>	TESTED: 2/24/16
	17FL SUPPLY FSD 17-2 CLOSED STATUS	CT	Ϊ́х	-			TESTED: 2/24/16
				├		<del> </del>	<del> </del>
	17FL EXHAUST FSD 17-3 CONTROL MODULE	CR	X			Ь.	TESTED: 2/24/16
	18FL SUPPLY FSD 18-1 CLOSED STATUS	СТ	L X			L	TESTED: 2/24/16
07020133	18FL SUPPLY FSD 18-2 CLOSED STATUS	CT	Х	LI			TESTED: 2/24/16
07020134	18FL EXHAUST FSD 18-3 CONTROL MODULE	CR	X				TESTED: 2/24/16
07020135	19FL SUPPLY FSD 19-1 CLOSED STATUS	СТ	X				TESTED: 2/24/16
	19FL SUPPLY FSD 19-2 CLOSED STATUS	CT	X	1			TESTED: 2/24/16
	19FL EXHAUST FSD 19-3 CONTROL MODULE	CR	X				TESTED: 2/24/16
~		CT		$\vdash$			
	20FL SUPPLY FSD 20-1 CLOSED STATUS		LX.	$\vdash$		_	TESTED: 2/24/16
	20FL SUPPLY FSD 20-2 CLOSED STATUS	СТ	X				TESTED: 2/24/16
7020140	20FL EXHAUST FSD 20-3 CONTROL MODULE	CR	X				TESTED: 2/24/16
7020141	21FL SUPPLY FSD 21-1 CLOSED STATUS	CT	X				TESTED: 2/24/16
7020142	21FL SUPPLY FSD 21-2 CLOSED STATUS	CT	X				TESTED: 2/24/16
	21FL EXHAUST FSD 21-3 CONTROL MODULE	CR	X	$\vdash$			TESTED; 2/24/16
	22FL SUPPLY FSD 22-1 CLOSED STATUS	CT	+		٠.		TESTED: 2/24/16
			X	$\vdash$			
	22FL SUPPLY FSD 22-2 CLOSED STATUS	CT	X	$\rightarrow$			TESTED: 2/24/16
	22FL EXHAUST FSD 22-3 CONTROL MODULE	CR	X	$oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{ol}}}}}}}}}}}}}}}}}}$			TESTED: 2/24/16
7020147	23FL SUPPLY FSD 23-1 CLOSED STATUS	СТ	X				TESTED: 2/24/16
	23FL SUPPLY FSD 23-2 CLOSED STATUS	CT	X				TESTED: 2/24/16
	23FL EXHAUST FSD 23-3 CONTROL MODULE	CR	X	-			TESTED: 2/24/16
	24FL SUPPLY FSD 24-1 CLOSED STATUS	CT	Î	$\vdash$			TESTED: 2/24/16
				$\vdash$		<b></b>	
	24FL SUPPLY FSD 24-2 CLOSED STATUS	CT	X	-	_	_	TESTED: 2/24/16
	24FL EXHAUST FSD 24-3 CONTROL MODULE	CR	X	<u>l</u> .			TESTED: 2/24/16
	25FL SUPPLY FSD 25-1 CLOSED STATUS	CT	Х				TESTED; 2/24/16
7020154	25FL SUPPLY FSD 25-2 CLOSED STATUS	CT	X				TESTED: 2/24/16
7020155	25FL EXHAUST FSD 25-3 CONTROL MODULE	CR	Х				TESTED: 2/24/16
	26FL ELECTRICAL ROOM SMOKE DETECTOR	SD	Х		x	X	TESTED: 2/23/16
	26FL TRASH ROOM SMOKE DETECTOR	SD	x		_		TESTED: 2/23/16
	· · · · · · · · · · · · · · · · · · ·				Ÿ		
	26FL CORRIDOR AT #26F SMOKE DETECTOR	SD	X	$\overline{}$	Х		TESTED: 2/23/16
3020004	26FL CORRIDOR AT #26E SMOKE DETECTOR	SD	Х		Х	X	TESTED: 2/23/16
3020005	26FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD	Х		X	Х	TESTED: 3/16/16, RECALLED
3020006	26FL CORRIDOR AT #26D SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/23/16
	26FL MECHANICAL ROOM SMOKE DETECTOR	SD	Х		Х		TESTED: 2/23/16
	26FL PUMP ROOM SMOKE DETECTOR	SD	x		χÌ		TESTED: 2/23/16
	26FL MECHANICAL ROOM SMOKE DETECTOR	SD	X	_	Х		TESTED: 2/23/16
	26FL MECHANICAL ROOM SMOKE DETECTOR	SD	Х		X		TESTED: 2/23/16
020011	26FL MECHANICAL ROOM SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/23/16
3020012	27FL ELEVATOR C4 & C5 MACH ROOM HEAT DET.	HD	Х		X	X	TESTED: 3/14/16, SHUNTED
	26FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	Х		X		TESTED: 2/23/16
	26FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	X		Ĥ		TESTED: 3/16/16, RECALLED
	4				-	_	
	26FL CORRIDOR AT #26B SMOKE DETECTOR	SD	X		X		TESTED: 2/23/16
	27FL ELEVATOR C4 & C5 MACH ROOM SMOKE DET.	SD	Х		X		TESTED: 3/14/16, RECALLED
3020017	27FL ELEVATOR C4 & C5 MACH ROOM SMOKE DET.	SD	X	T	Х	Х	TESTED: 3/14/16, RECALLED
020018	27FL ELECTRICAL ROOM SMOKE DETECTOR	SD	Х	T	X	Х	TESTED: 2/23/16
	27FL TRASH ROOM SMOKE DETECTOR	SD	Х		x		TESTED: 2/23/16
	27FL CORRIDOR AT #27F SMOKE DETECTOR	SD	X	_	χĺ		TESTED: 2/23/16
			_				
	27FL CORRIDOR AT #27E SMOKE DETECTOR	SD	X				TESTED: 2/23/16
~,	27FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD	X		$\overline{}$		TESTED: 3/16/16, RECALLED
8020023	27FL CORRIDOR AT #27D SMOKE DETECTOR	SD	Х		<u> </u>	<u>X</u>	TESTED: 2/23/16
020024	27FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	Х		Х	X	TESTED: 2/23/16
	27FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	Х		хİ	$\mathbf{x}$	TESTED: 3/16/16, RECALLED
	27FL CORRIDOR AT #27B SMOKE DETECTOR	SD	X		x		TESTED: 2/23/16
	27FL ELEVATOR C4 & C5 MACH ROOM HEAT DET.				_		TESTED: 3/14/16, SHUNTED
		HD	X		<u>X</u>		
	27FL ELEVATOR C4 & C5 MACH ROOM HEAT DET.	HD	Х		<u>X</u>		TESTED: 3/14/16, SHUNTED
	28FL ELECTRICAL ROOM SMOKE DETECTOR	SD	Х		X		TESTED: 2/23/16
020031	28FL TRASH ROOM SMOKE DETECTOR	SD	Х		X	X	TESTED: 2/23/16
8020032	28FL CORRIDOR AT #28F SMOKE DETECTOR	SD	Х		x	X	TESTED: 2/23/16
	28FL CORRIDOR AT #28E SMOKE DETECTOR	SD	$\hat{\mathbf{x}}$		χÌ	$\overline{}$	TESTED: 2/23/16
	28FL ELEVATOR \$1 & \$2 LOBBY SMOKE DETECTOR	SD	$\frac{2}{x}$				TESTED: 3/14/16, RECALLED
			_		ХÌ		
	28FL CORRIDOR AT #28C SMOKE DETECTOR	SD	X		X.I		TESTED: 2/23/16
8020036	28FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	Х		X	X	TESTED: 2/23/16
8020037	28FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	Х		X	Х	TESTED: 3/15/16, RECALLED
					x		TESTED: 2/23/16
	28FL CORRIDOR AT #28B SMOKE DETECTOR	SDI	_ ^ /		<i>^</i>		
3020038	28FL CORRIDOR AT #28B SMOKE DETECTOR 29FL ELECTRICAL ROOM SMOKE DETECTOR	SD SD	$\frac{x}{x}$		≎l		TESTED: 2/23/16

08020040				-			I
	29FL TRASH ROOM SMOKE DETECTOR	SD	X		X		TESTED: 2/23/16
08020041	29FL CORRIDOR AT #29F SMOKE DETECTOR	SD	X		Х	X	TESTED: 2/23/16
	29FL CORRIDOR AT #29E SMOKE DETECTOR	SD	X		Х	X	TESTED: 2/23/16
			Ϊ́х	-	Î		TESTED: 3/16/16, RECALLED
	29FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR			_			
08020044	29FL CORRIDOR AT #29C SMOKE DETECTOR	SD	Х		Х		TESTED: 2/23/16
08020045	29FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/23/16
08020046	29FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	X		X	X	TESTED: 3/16/16, RECALLED
	29FL CORRIDOR AT #29B SMOKE DETECTOR	SD	X		X		TESTED: 2/23/16
	30FL ELECTRICAL ROOM SMOKE DETECTOR	SD	Х		X		TESTED: 2/23/16
08020049	30FL TRASH ROOM SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/23/16
08020050	30FL CORRIDOR AT #30F SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/23/16
	30FL CORRIDOR AT #30E SMOKE DETECTOR	SD	X	<del>                                     </del>	X	_	TESTED: 2/23/16
				<del> </del>			
	30FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD	X		X	-	TESTED: 3/16/16, RECALLED
	30FL CORRIDOR AT #30C SMOKE DETECTOR	SD	Х		X		TESTED: 2/23/16
08020054	30FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	X		X	Х	TESTED: 2/23/16
08020055	30FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	X		X	X	TESTED: 3/16/16, RECALLED
	30FL CORRIDOR AT #30B SMOKE DETECTOR	SD	X		X		TESTED: 2/23/16
			_				<u> </u>
	31FL ELECTRICAL ROOM SMOKE DETECTOR	SD	X	ļļ	X		TESTED: 2/23/16
08020058	31FL TRASH ROOM SMOKE DETECTOR	SD	Х		X	Х	TESTED: 2/23/16
08020059	31FL CORRIDOR AT #31F SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/23/16
	31FL CORRIDOR AT #31E SMOKE DETECTOR	SD	X		X		TESTED: 2/23/16
	31FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD	x	$\vdash$	X		TESTED: 3/16/16, RECALLED
	<u> </u>			$\vdash \vdash$			
	31FL CORRIDOR AT #31C SMOKE DETECTOR	SD	Х	Ш	Х		TESTED: 2/23/16
08020063	31FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	X	1	χ.	Х	TESTED: 2/23/16
	31FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	Х		Х	X	TESTED: 3/16/16, RECALLED
	31FL CORRIDOR AT #31B SMOKE DETECTOR	SD	X	┌─┤	X		TESTED: 2/23/16
	32FL ELECTRICAL ROOM SMOKE DETECTOR	SD	Х		Х		TESTED: 2/23/16
08020067	32FL TRASH ROOM SMOKE DETECTOR	SD	Х		Х	X	TESTED: 2/23/16
08020068	32FL CORRIDOR AT #32F SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/23/16
	32FL CORRIDOR AT #32E SMOKE DETECTOR	SD	X		X	X	TESTED: 2/23/16
						_	
	32FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD	Х		Х		TESTED: 3/16/16, RECALLED
08020071	32FL CORRIDOR AT #32C SMOKE DETECTOR	SD	X		X	Х	TESTED: 2/23/16
08020072	32FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/23/16
	32FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	X		Х	_	TESTED: 3/16/16, RECALLED
					_		
	32FL CORRIDOR AT #32B SMOKE DETECTOR	SD	X		Х		TESTED: 2/23/16
08020075	33FL ELECTRICAL ROOM SMOKE DETECTOR	SD	Х		Χ	X	TESTED: 2/23/16
08020076	33FL TRASH ROOM SMOKE DETECTOR	SD	X		X	X	TESTED: 2/23/16
08020077	33FL CORRIDOR AT #33F SMOKE DETECTOR	SD	Х		X	X	TESTED: 2/23/16
	33FL CORRIDOR AT #33E SMOKE DETECTOR	SD	x		x		TESTED: 2/23/16
08020079	33FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD	Х		Х		TESTED: 3/16/16, RECALLED
08020080	33FL CORRIDOR AT #33C SMOKE DETECTOR	SD	Х		X	Х	TESTED: 2/23/16
08020081	33FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	Х		X	Х	TESTED: 2/23/16
	33FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	X	-			TESTED: 3/15/16, RECALLED
		30					
08020083 1	33FL CORRIDOR AT #33B SMOKE DETECTOR			$\Box$	X		
		SD	Х		Х	Χ	TESTED: 2/23/16
	34FL ELECTRICAL ROOM SMOKE DETECTOR	SD SD				Χ	
08020084	34FL ELECTRICAL ROOM SMOKE DETECTOR	SD	X		X	X X	TESTED: 2/23/16
08020084 08020085	34FL ELECTRICAL ROOM SMOKE DETECTOR 34FL TRASH ROOM SMOKE DETECTOR	SD SD	X X X		X X X	X X X	TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16
08020084 08020085 08020086	34FL ELECTRICAL ROOM SMOKE DETECTOR 34FL TRASH ROOM SMOKE DETECTOR 34FL CORRIDOR AT #34F SMOKE DETECTOR	SD SD SD	X X X		X X X	X X X	TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16
08020084 08020085 08020086 08020087	34FL ELECTRICAL ROOM SMOKE DETECTOR 34FL TRASH ROOM SMOKE DETECTOR 34FL CORRIDOR AT #34F SMOKE DETECTOR 34FL CORRIDOR AT #34E SMOKE DETECTOR	SD SD SD SD	X X X X		X X X X	X X X X	TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16
08020084 08020085 08020086 08020087	34FL ELECTRICAL ROOM SMOKE DETECTOR 34FL TRASH ROOM SMOKE DETECTOR 34FL CORRIDOR AT #34F SMOKE DETECTOR	SD SD SD	X X X		X X X	X X X X	TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16
08020084 08020085 08020086 08020087 08020088	34FL ELECTRICAL ROOM SMOKE DETECTOR 34FL TRASH ROOM SMOKE DETECTOR 34FL CORRIDOR AT #34F SMOKE DETECTOR 34FL CORRIDOR AT #34E SMOKE DETECTOR 34FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD SD SD SD SD	X X X X X		X X X X X	X X X X X	TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 3/16/16, RECALLED
08020084 08020085 08020086 08020087 08020088 08020089	34FL ELECTRICAL ROOM SMOKE DETECTOR 34FL TRASH ROOM SMOKE DETECTOR 34FL CORRIDOR AT #34F SMOKE DETECTOR 34FL CORRIDOR AT #34E SMOKE DETECTOR 34FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR 34FL CORRIDOR AT #34C SMOKE DETECTOR	SD SD SD SD SD SD	X X X X X X		X X X X X X	X X X X X X	TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 3/16/16, RECALLED TESTED: 2/23/16
08020084 08020085 08020086 08020087 08020088 08020089 08020090	34FL ELECTRICAL ROOM SMOKE DETECTOR 34FL TRASH ROOM SMOKE DETECTOR 34FL CORRIDOR AT #34F SMOKE DETECTOR 34FL CORRIDOR AT #34E SMOKE DETECTOR 34FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR 34FL CORRIDOR AT #34C SMOKE DETECTOR 34FL CORRIDOR AT ELEV SMOKE DETECTOR	SD SD SD SD SD SD SD	X X X X X X X		X X X X X X X	X X X X X X	TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 3/16/16, RECALLED TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16
08020084 08020085 08020086 08020087 08020088 08020089 08020090 08020091	34FL ELECTRICAL ROOM SMOKE DETECTOR 34FL TRASH ROOM SMOKE DETECTOR 34FL CORRIDOR AT #34F SMOKE DETECTOR 34FL CORRIDOR AT #34E SMOKE DETECTOR 34FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR 34FL CORRIDOR AT #34C SMOKE DETECTOR 34FL CORRIDOR AT ELEV SMOKE DETECTOR 34FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD SD SD SD SD SD SD SD	X X X X X X X X		X X X X X X X X	X X X X X X X	TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 3/16/16, RECALLED TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16
08020084 08020085 08020086 08020087 08020088 08020089 08020090 08020091	34FL ELECTRICAL ROOM SMOKE DETECTOR 34FL TRASH ROOM SMOKE DETECTOR 34FL CORRIDOR AT #34F SMOKE DETECTOR 34FL CORRIDOR AT #34E SMOKE DETECTOR 34FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR 34FL CORRIDOR AT #34C SMOKE DETECTOR 34FL CORRIDOR AT ELEV SMOKE DETECTOR	SD SD SD SD SD SD SD	X X X X X X X		X X X X X X X	X X X X X X X	TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 3/16/16, RECALLED TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16
08020084 08020085 08020086 08020087 08020088 08020089 08020090 08020091 08020092	34FL ELECTRICAL ROOM SMOKE DETECTOR 34FL TRASH ROOM SMOKE DETECTOR 34FL CORRIDOR AT #34F SMOKE DETECTOR 34FL CORRIDOR AT #34E SMOKE DETECTOR 34FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR 34FL CORRIDOR AT #34C SMOKE DETECTOR 34FL CORRIDOR AT ELEV SMOKE DETECTOR 34FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD SD SD SD SD SD SD SD	X X X X X X X X		X X X X X X X X	X X X X X X X	TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 3/16/16, RECALLED TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16
08020084 08020085 08020086 08020087 08020088 08020089 08020090 08020090 08020091 08020092 08020126	34FL ELECTRICAL ROOM SMOKE DETECTOR 34FL TRASH ROOM SMOKE DETECTOR 34FL CORRIDOR AT #34F SMOKE DETECTOR 34FL CORRIDOR AT #34E SMOKE DETECTOR 34FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR 34FL CORRIDOR AT #34C SMOKE DETECTOR 34FL CORRIDOR AT ELEV SMOKE DETECTOR 34FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR 34FL CORRIDOR AT #34B SMOKE DETECTOR 36FL ELECTRICAL ROOM DOOR HOLDER RELAY	SD SD SD SD SD SD SD SD SD SD	X X X X X X X X X X		X X X X X X X X	X X X X X X X X	TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 3/16/16, RECALLED TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 2/23/16 TESTED: 3/16/16, RECALLED TESTED: 2/23/16 TESTED: 3/16/16, RECALLED TESTED: 3/16/16, RECALLED TESTED: 3/16/16, RECALLED TESTED: 2/23/16 TESTED: 3/8/16
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		29FL SUPPLY FSD 29-2 CLOSED STATUS	ст	X			-	TESTED; 2/24/16
		29FL EXHAUST F9D 29-3 CONTROL MODULE	CR	_		12014	7786	TESTED: 2/24/16
		30FL SUPPLY FSD 30-1 CLDSED STATUS 30FL SUPPLY FSD 30-2 CLOSED STATUS	CT	X				TESTED: 2/24/16 TESTED: 2/24/16
		30FL EXHAUST FSD 30-3 CONTROL MODULE	CR	X	1.1.			TESTED: 2/24/16
		31FL SUPPLY FSD 31-1 CLOSED STATUS	CT	Х				TESTED; 2/24/16
		31FL SUPPLY FSD 31-2 CLOSED STATUS 31FL EXHAUST FSD 31-3 CONTROL MODULE	CR	X	- Atri 4	100.00	PSTS Nation	TESTED: 2/24/16 TESTED: 2/24/16
-	two decisions in the	32FL SUPPLY FSD 32-1 CLOSED STATUS	CT:	Â.	44.7	50.0	Sal Si	TESTED: 2/24/16
	-atomic and a	32FL SUPPLY FSD 32-2 CLOSED STATUS	CT :	X	10000	35.3	SEELE.	TESTED: 2/24/16
	0171	32FL EXHAUST FSD 32-3 CONTROL MODULE 33FL SUPPLY FSD 33-1 CLOSED STATUS	CR CT	X	2555) 45-1-0*			TESTED: 2/24/16 TESTED: 2/24/16
		33FL SUPPLY FSD 33-2 CLOSED STATUS	CT	x				TESTED: 2/24/16
		33FL EXHAUST FSD 33-3 CONTROL MODULE	GR	X		. J. C.	Jayan ini Ari	TESTED; 2/24/16
		34FL SUPPLY FSD 34-1 CLOSED STATUS 34FL SUPPLY FSD 34-2 CLOSED STATUS	CT	X			6 G	TESTED: 2/24/16 TESTED: 2/24/16
	The second second	34FL EXHAUST FSD 34-3 CONTROL MODULE	CR	X			Service .	TESTED: 2/24/16
		26FL SUPPLY FSD RISER STAIR 2 RELAY	CR	Х		11. 12	my.	TESTED: 2/24/16
11 000 00 00		26FL SUPPLY FSD RISER STAIR 1 RELAY 26FL EXHAUST FANS LOW SPEED RELAY	CR	X		1	12.50	TESTED: 2/24/16 TESTED: 2/24/16
		35FL ELECTRICAL ROOM SMOKE DETECTOR	SD	X	200 AVE 2	Х	X	TESTED: 2/23/16
		35FL TRASH ROOM SMOKE DETECTOR	ទ២	Х		Х		TESTED: 2/23/16
AND DESCRIPTION OF THE PERSON		SSFL CORRIDOR AT #35F SMOKE DETECTOR SSFL CORRIDOR AT #35E SMOKE DETECTOR	SD.	X	357.14	X		TESTED: 2/23/16 TESTED: 2/23/16
		35FL ELEVATOR ST & S2 LOBBY SMOKE DETECTOR	SD	X	30000		-	TESTED: 3/14/16, RECALLED
		35FL CORRIDOR AT #35C SMOKE DETECTION	SD	Х		40.000		TESTED: 2/23/16
		35FL CORRIDOR AT ELEV SMOKE DETECTOR 35FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	X	1000	X	_	TESTED: 2/23/16 TESTED: 3/16/16, RECAULED
		35FL CORRIDOR AT #35C SMOKE DETECTOR	SD	X	Garrer 1	_		TESTED: 2/23/16
		36FL ELECTRICAL ROOM SMOKE DETECTOR		Х				TESTED::2/23/16
		36FL TRASH ROOM SMOKE DETECTOR 36FL CORRIDOR AT #38F SMOKE DETECTOR	SD SD	X	1111		_	TESTED: 2/23/16 TESTED: 2/23/16
-		36FL CORRIDOR AT #36E SMOKE DETECTOR		X	iagai (			TESTED: 2/23/16
		36FL ELEVATOR \$1 & \$2 LOBBY SMOKE DETECTOR		X.	1			TESTED: 3/16/18, RECALLED
	at the second	36FL CORRIDOR AT #36C SMOKE DETECTOR 36FL CORRIDOR AT ELEV SMOKE DETECTOR	SD SD	X				TESTED: 2/23/16, TESTED: 2/23/16
		36FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	X	1977 (1976)			TESTED: 3/16/16, RECALLED
		36FL CORRIDOR AT #36B SMOKE DETECTOR		Х		Х	A	TESTED: 2/23/16
-		37FL ELECTRICAL ROOM SMOKE DETECTOR 37FL TRASH ROOM SMOKE DETECTOR	SD	X	a sagara		_	TESTED: 2/23/16 TESTED: 2/23/16
		37FL CORRIDOR AT #37F SMOKE DETECTOR	SD.	X	Such I		-	TESTED: 2/23/16
0902	0022	37FL CORRIDOR AT #37E SMCKE DETECTOR		X	0.0	-		TESTED: 2/23/16
0902	0023	37FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD	Х		X.	Х	TESTED: 3/16/18, RECALLED

	37FL CORRIDOR AT #37C SMOKE DETECTOR	SD	Х			X TESTED: 2/23/16
	37FL CORRIDOR AT ELEV SMOKE DETECTOR 37FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	<del>°</del>	<del>                                     </del>		X TESTED: 2/23/16 X TESTED: 3/16/16, RECALLED
09020026	37FL CORRIDOR AT #37B SMOKE DETECTOR	SD	X	- <u> </u>		X TESTED: 3/16/16, RECALLED X TESTED: 2/23/16
09020028		SD	Х	X		X TESTED: 2/23/16
	38FL TRASH ROOM SMOKE DETECTOR	SD	X	X	-	X TESTED: 2/23/16
09020030 09020031		SD	X	l X		X   TESTED: 2/23/16 X   TESTED: 2/23/16
09020032		SD	x	T X		X TESTED: 3/16/16, RECALLED
09020033	38FL CORRIDOR AT #38C SMOKE DETECTOR	SD	Х	X		X TESTED: 2/23/16
	38FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	X	X	_	X TESTED: 2/23/16
	38FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR 38FL CORRIDOR AT #38B SMOKE DETECTOR	SD	X	X	-	X TESTED: 3/15/16, RECALLED X TESTED: 2/23/16
	39FL ELECTRICAL ROOM SMOKE DETECTOR	SD	X	l x		X TESTED: 2/23/16
	39FL TRASH ROOM SMOKE DETECTOR	SD	Х	Х		X TESTED: 2/23/16
	39FL CORRIDOR AT #39F SMOKE DETECTOR	SD	X	l X	-	( TESTED: 2/23/16
	39FL CORRIDOR AT #39E SMOKE DETECTOR 39FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD SD	X	X	_	(   TESTED: 2/23/16 (   TESTED: 3/16/16, RECALLED
09020042		SD	x	X	7	K TESTED: 2/23/16
	39FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	X	X		( TESTED: 2/23/16
	39FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR 39FL CORRIDOR AT #39B SMOKE DETECTOR	SD	X	X	_	( TESTED: 3/16/16, RECALLED ( TESTED: 2/23/16
	40FL ELECTRICAL ROOM SMOKE DETECTOR	SD	<del> </del> $\hat{x}$	l x		( TESTED: 2/23/16
	40FL TRASH ROOM SMOKE DETECTOR	SD	Х	Х	>	( TESTED: 2/23/16
	40FL CORRIDOR AT #40F SMOKE DETECTOR	SD	X	X		( TESTED: 2/23/16
	40FL CORRIDOR AT #40E SMOKE DETECTOR 40FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD	X	X		(   TESTED: 2/23/16 (   TESTED: 3/16/16, RECALLED
	40FL CORRIDOR AT #40C SMOKE DETECTOR	SD	X	l x		( TESTED: 2/23/16
	40FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	Х	Х	_	( TESTED: 2/23/16
	40FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	X	I X		( TESTED: 3/16/16, RECALLED
	40FL CORRIDOR AT #40B SMOKE DETECTOR 41FL ELECTRICAL ROOM SMOKE DETECTOR	SD	X	X		(   TESTED: 2/23/16 (   TESTED: 2/23/16
	41FL TRASH ROOM SMOKE DETECTOR	SD	X	X		( TESTED: 2/23/16
	41FL CORRIDOR AT #41F SMOKE DETECTOR	SD	Х	Х		( TESTED: 2/23/16
	41FL CORRIDOR AT #41E SMOKE DETECTOR 41FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD SD	X	$\frac{X}{X}$		( TESTED: 2/23/16 ( TESTED: 3/14/16, RECALLED
	41FL CORRIDOR AT #41C SMOKE DETECTOR	SD	Ŷ	Hâ	_	( TESTED: 2/23/16
09020061	41FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	Х	X	_	( TESTED: 2/23/16
	41FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	Х	X		( TESTED: 3/16/16, RECALLED
	41FL CORRIDOR AT #41B SMOKE DETECTOR  42FL ELECTRICAL ROOM SMOKE DETECTOR	SD	X	X	_	(   TESTED: 2/23/16 (   TESTED: 2/23/16
	42FL TRASH ROOM SMOKE DETECTOR	SD	Ŷ	<del>l î</del>	_	( TESTED: 2/23/16
	42FL CORRIDOR AT #42F SMOKE DETECTOR	SD	Х	Х	_	( TESTED: 2/23/16
	42FL CORRIDOR AT #42E SMOKE DETECTOR	SD	×	X	_	( TESTED: 2/23/16
	42FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR 42FL CORRIDOR AT #42C SMOKE DETECTOR	SD SD	X	X		(   TESTED: 3/16/16, RECALLED   (   TESTED: 2/23/16
	42FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	x	<del>  x</del>		( TESTED: 2/23/16
	42FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	Χ	Х		( TESTED: 3/16/16, RECALLED
	42FL CORRIDOR AT #42B SMOKE DETECTOR	SD	Ŷ	X	_	( TESTED: 2/23/16
	43FL ELECTRICAL ROOM SMOKE DETECTOR 43FL TRASH ROOM SMOKE DETECTOR	SD	X	X		(   TESTED: 2/23/16 (   TESTED: 2/23/16
	43FL CORRIDOR AT #43F SMOKE DETECTOR	SD	X	<del>    x</del>		( TESTED: 2/23/16
	43FL CORRIDOR AT #42E SMOKE DETECTOR	SD	X	X		( TESTED: 2/23/16
	43FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD	Ŷ	X		( TESTED: 3/16/16, RECALLED
	43FL CORRIDOR AT #43C SMOKE DETECTOR 43FL CORRIDOR AT ELEV SMOKE DETECTOR	SD SD	X	$\frac{X}{X}$	_	(   TESTED: 2/23/16 (   TESTED: 2/23/16
	43FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	X	$\frac{\hat{x}}{\hat{x}}$		TESTED: 3/15/16, RECALLED
	43FL CORRIDOR AT #43B SMOKE DETECTOR	SD	Х	X		TESTED: 2/23/16
	45FL ELECTRICAL ROOM SMOKE DETECTOR 45FL TRASH ROOM SMOKE DETECTOR	SD SD	X	X		TESTED: 2/23/16 TESTED: 2/23/16
	45FL TRASH ROOM SMOKE DETECTOR  45FL CORRIDOR AT #45F SMOKE DETECTOR	SD	÷	<del>  x</del>		(   TESTED: 2/23/16
	45FL CORRIDOR AT #45E SMOKE DETECTOR	SD	X	X	_	(   TESTED: 2/23/16
	45FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD	Х	X	_	TESTED: 3/16/16, RECALLED
	45FL CORRIDOR AT #45C SMOKE DETECTOR 45FL CORRIDOR AT ELEV SMOKE DETECTOR	SD SD	X	X		TESTED: 2/23/16 TESTED: 2/23/16
	45FL CURRIDOR AT ELEV SMOKE DETECTOR  45FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	X		_	(TESTED: 2/23/16
2222000	1 = 1				^	1 the are the total are

09020090         45FL CORRIDOR AT #45B SMOKE DETECTOR         SD         X         X         X         TESTED: 2/23/1           09020126         35FL SUPPLY FSD 33-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020127         35FL SUPPLY FSD 35-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020128         35FL EXHAUST FSD 35-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020129         36FL SUPPLY FSD 36-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020130         36FL SUPPLY FSD 36-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020131         36FL EXHAUST FSD 36-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020132         37FL SUPPLY FSD 37-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020133         37FL SUPPLY FSD 37-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020134         37FL EXHAUST FSD 38-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020135         38FL SUPPLY FSD 38-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020137         38FL EXHAUST FSD 39-3 CONTROL MODULE         CR         X         TESTED:	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
09020127         35FL SUPPLY FSD 35-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020128         35FL EXHAUST FSD 35-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020129         36FL SUPPLY FSD 36-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020130         36FL SUPPLY FSD 36-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020131         36FL EXHAUST FSD 36-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020132         37FL SUPPLY FSD 37-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020133         37FL SUPPLY FSD 37-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020134         37FL EXHAUST FSD 37-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020135         38FL SUPPLY FSD 38-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020136         38FL SUPPLY FSD 38-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020137         38FL EXHAUST FSD 38-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020139         39FL SUPPLY FSD 39-1 CLOSED STATUS         CT         X         TESTED: 2/24/1 <td< td=""><td>6 6 6 6 6 6 6 6 6 6 6 6 6</td></td<>	6 6 6 6 6 6 6 6 6 6 6 6 6
09020128         35FL EXHAUST FSD 35-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020129         36FL SUPPLY FSD 36-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020130         36FL SUPPLY FSD 36-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020131         36FL EXHAUST FSD 36-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020132         37FL SUPPLY FSD 37-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020133         37FL SUPPLY FSD 37-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020134         37FL EXHAUST FSD 37-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020135         38FL SUPPLY FSD 38-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020136         38FL SUPPLY FSD 38-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020137         38FL EXHAUST FSD 38-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020138         39FL SUPPLY FSD 39-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020139         39FL SUPPLY FSD 39-2 CLOSED STATUS         CT         X         TESTED: 2/24/1 <td< td=""><td>6 6 6 6 6 6 6 6 6 6 6 6 6</td></td<>	6 6 6 6 6 6 6 6 6 6 6 6 6
09020129         36FL SUPPLY FSD 36-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020130         36FL SUPPLY FSD 36-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020131         36FL EXHAUST FSD 36-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020132         37FL SUPPLY FSD 37-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020133         37FL SUPPLY FSD 37-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020134         37FL EXHAUST FSD 37-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020135         38FL SUPPLY FSD 38-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020136         38FL SUPPLY FSD 38-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020137         38FL EXHAUST FSD 38-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020138         39FL SUPPLY FSD 39-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020139         39FL SUPPLY FSD 39-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020140         39FL EXHAUST FSD 39-3 CONTROL MODULE         CR         X         TESTED: 2/24/1 <td< td=""><td>6 6 6 6 6 6 6 6 6 6 6</td></td<>	6 6 6 6 6 6 6 6 6 6 6
09020130         36FL SUPPLY FSD 36-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020131         36FL EXHAUST FSD 36-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020132         37FL SUPPLY FSD 37-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020133         37FL SUPPLY FSD 37-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020134         37FL EXHAUST FSD 37-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020135         38FL SUPPLY FSD 38-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020136         38FL SUPPLY FSD 38-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020137         38FL EXHAUST FSD 38-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020138         39FL SUPPLY FSD 39-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020139         39FL SUPPLY FSD 39-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020140         39FL EXHAUST FSD 39-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020141         40FL SUPPLY FSD 40-1 CLOSED STATUS         CT         X         TESTED: 2/24/1 <td< td=""><td>6 6 6 6 6 6 6 6 6</td></td<>	6 6 6 6 6 6 6 6 6
09020130         36FL SUPPLY FSD 36-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020131         36FL EXHAUST FSD 36-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020132         37FL SUPPLY FSD 37-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020133         37FL SUPPLY FSD 37-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020134         37FL EXHAUST FSD 37-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020135         38FL SUPPLY FSD 38-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020136         38FL SUPPLY FSD 38-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020137         38FL EXHAUST FSD 38-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020138         39FL SUPPLY FSD 39-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020139         39FL SUPPLY FSD 39-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020140         39FL EXHAUST FSD 39-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020141         40FL SUPPLY FSD 40-1 CLOSED STATUS         CT         X         TESTED: 2/24/1 <td< td=""><td>6 6 6 6 6 6 6 6</td></td<>	6 6 6 6 6 6 6 6
09020131         36FL EXHAUST FSD 36-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020132         37FL SUPPLY FSD 37-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020133         37FL SUPPLY FSD 37-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020134         37FL EXHAUST FSD 37-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020135         38FL SUPPLY FSD 38-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020136         38FL SUPPLY FSD 38-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020137         38FL SUPPLY FSD 38-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020138         39FL SUPPLY FSD 39-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020139         39FL SUPPLY FSD 39-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020140         39FL EXHAUST FSD 39-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020141         40FL SUPPLY FSD 40-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020142         40FL SUPPLY FSD 40-2 CLOSED STATUS         CT         X         TESTED: 2/24/1	6 6 6 6 6 6 6 6
09020132         37FL SUPPLY FSD 37-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020133         37FL SUPPLY FSD 37-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020134         37FL EXHAUST FSD 37-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020135         38FL SUPPLY FSD 38-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020136         38FL SUPPLY FSD 38-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020137         38FL EXHAUST FSD 38-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020138         39FL SUPPLY FSD 39-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020139         39FL SUPPLY FSD 39-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020140         39FL EXHAUST FSD 39-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020141         40FL SUPPLY FSD 40-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020142         40FL SUPPLY FSD 40-2 CLOSED STATUS         CT         X         TESTED: 2/24/1	6 6 6 6 6 6
09020133         37FL SUPPLY FSD 37-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020134         37FL EXHAUST FSD 37-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020135         38FL SUPPLY FSD 38-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020136         38FL SUPPLY FSD 38-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020137         38FL EXHAUST FSD 38-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020138         39FL SUPPLY FSD 39-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020139         39FL SUPPLY FSD 39-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020140         39FL EXHAUST FSD 39-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020141         40FL SUPPLY FSD 40-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020142         40FL SUPPLY FSD 40-2 CLOSED STATUS         CT         X         TESTED: 2/24/1	6 6 6 6 6
09020134         37FL EXHAUST FSD 37-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020135         38FL SUPPLY FSD 38-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020136         38FL SUPPLY FSD 38-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020137         38FL EXHAUST FSD 38-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020138         39FL SUPPLY FSD 39-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020139         39FL SUPPLY FSD 39-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020140         39FL EXHAUST FSD 39-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020141         40FL SUPPLY FSD 40-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020142         40FL SUPPLY FSD 40-2 CLOSED STATUS         CT         X         TESTED: 2/24/1	6 6 6 6
09020135         38FL SUPPLY FSD 38-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020136         38FL SUPPLY FSD 38-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020137         38FL EXHAUST FSD 38-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020138         39FL SUPPLY FSD 39-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020139         39FL SUPPLY FSD 39-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020140         39FL EXHAUST FSD 39-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020141         40FL SUPPLY FSD 40-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020142         40FL SUPPLY FSD 40-2 CLOSED STATUS         CT         X         TESTED: 2/24/1	6 6 6
09020136         38FL SUPPLY FSD 38-2 CLOSED STATUS         CT X         TESTED: 2/24/1           09020137         38FL EXHAUST FSD 38-3 CONTROL MODULE         CR X         TESTED: 2/24/1           09020138         39FL SUPPLY FSD 39-1 CLOSED STATUS         CT X         TESTED: 2/24/1           09020139         39FL SUPPLY FSD 39-2 CLOSED STATUS         CT X         TESTED: 2/24/1           09020140         39FL EXHAUST FSD 39-3 CONTROL MODULE         CR X         TESTED: 2/24/1           09020141         40FL SUPPLY FSD 40-1 CLOSED STATUS         CT X         TESTED: 2/24/1           09020142         40FL SUPPLY FSD 40-2 CLOSED STATUS         CT X         TESTED: 2/24/1	6 6 6
09020137         38FL EXHAUST FSD 38-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020138         39FL SUPPLY FSD 39-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020139         39FL SUPPLY FSD 39-2 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020140         39FL EXHAUST FSD 39-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020141         40FL SUPPLY FSD 40-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020142         40FL SUPPLY FSD 40-2 CLOSED STATUS         CT         X         TESTED: 2/24/1	6
09020138         39FL SUPPLY FSD 39-1 CLOSED STATUS         CT X         TESTED: 2/24/1           09020139         39FL SUPPLY FSD 39-2 CLOSED STATUS         CT X         TESTED: 2/24/1           09020140         39FL EXHAUST FSD 39-3 CONTROL MODULE         CR X         TESTED: 2/24/1           09020141         40FL SUPPLY FSD 40-1 CLOSED STATUS         CT X         TESTED: 2/24/1           09020142         40FL SUPPLY FSD 40-2 CLOSED STATUS         CT X         TESTED: 2/24/1	6
09020139         39FL SUPPLY FSD 39-2 CLOSED STATUS         CT X         TESTED: 2/24/1           09020140         39FL EXHAUST FSD 39-3 CONTROL MODULE         CR X         TESTED: 2/24/1           09020141         40FL SUPPLY FSD 40-1 CLOSED STATUS         CT X         TESTED: 2/24/1           09020142         40FL SUPPLY FSD 40-2 CLOSED STATUS         CT X         TESTED: 2/24/1	
09020140         39FL EXHAUST FSD 39-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020141         40FL SUPPLY FSD 40-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020142         40FL SUPPLY FSD 40-2 CLOSED STATUS         CT         X         TESTED: 2/24/1	6
09020140         39FL EXHAUST FSD 39-3 CONTROL MODULE         CR         X         TESTED: 2/24/1           09020141         40FL SUPPLY FSD 40-1 CLOSED STATUS         CT         X         TESTED: 2/24/1           09020142         40FL SUPPLY FSD 40-2 CLOSED STATUS         CT         X         TESTED: 2/24/1	
09020141         40FL SUPPLY FSD 40-1 CLOSED STATUS         CT X         TESTED: 2/24/1           09020142         40FL SUPPLY FSD 40-2 CLOSED STATUS         CT X         TESTED: 2/24/1	6
09020142   40FL SUPPLY FSD 40-2 CLOSED STATUS	
09020144   41FL SUPPLY FSD 41-1 CLOSED STATUS	
09020145 41FL SUPPLY FSD 41-2 CLOSED STATUS CT X TESTED: 2/24/1	
09020146 41FL EXHAUST FSD 41-3 CONTROL MODULE CR X TESTED: 2/24/1	6
09020147	6
09020148   42FL SUPPLY FSD 42-2 CLOSED STATUS	6
09020149 42FL EXHAUST FSD 42-3 CONTROL MODULE CR X TESTED: 2/24/1	
09020150 43FL SUPPLY FSD 43-1 CLOSED STATUS CT X TESTED: 2/24/1	
09020152         43FL EXHAUST FSD 43-3 CONTROL MODULE         CR X         TESTED: 2/24/1	
09020153   45FL SUPPLY FSD 45-1 CLOSED STATUS	
09020154   45FL SUPPLY FSD 45-2 CLOSED STATUS	
09020155 45FL EXHAUST FSD 45-3 CONTROL MODULE CR X TESTED: 2/24/1	6
10020001 46FL ELECTRICAL ROOM SMOKE DETECTOR SD X X X TESTED: 2/23/1	6
10020002 46FL TRASH ROOM SMOKE DETECTOR SD X X X TESTED: 2/23/1	
10020003 46FL CORRIDOR AT #46F SMOKE DETECTOR SD X X X TESTED: 2/23/1	
10020004 46FL CORRIDOR AT #46E SMOKE DETECTOR SD X X X TESTED: 2/23/1	
10020005 46FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR SD X X X TESTED: 3/16/1	
10020006 46FL CORRIDOR AT #46C SMOKE DETECTOR SD X X X TESTED: 2/23/1	
10020007 46FL CORRIDOR AT ELEV SMOKE DETECTOR SD X X X TESTED: 2/23/1	
10020008 46FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR SD X X X TESTED: 3/16/1	6, RECALLED
10020009 46FL CORRIDOR AT #46B SMOKE DETECTOR SD X X X TESTED: 2/23/1	6
10020010 47FL ELECTRICAL ROOM SMOKE DETECTOR SD X X TESTED: 2/23/1	6
10020011 47FL TRASH ROOM SMOKE DETECTOR SD X X X TESTED: 2/23/1	
10020012 47FL CORRIDOR AT #47F SMOKE DETECTOR SD X X TESTED: 2/23/1	
10020014 47FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR SD X X X TESTED: 3/16/1	
10020015 47FL CORRIDOR AT #47C SMOKE DETECTOR SD X X X TESTED: 2/23/1	
10020016 47FL CORRIDOR AT ELEV SMOKE DETECTOR SD X X X TESTED: 2/23/1	6
10020017 47FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR SD X X X TESTED: 3/16/1	6, RECALLED
10020018 47FL CORRIDOR AT #47B SMOKE DETECTOR SD X X X TESTED: 2/23/10	6
10020019 48FL ELECTRICAL ROOM SMOKE DETECTOR SD X X X TESTED: 2/23/1	
10020020 48FL TRASH ROOM SMOKE DETECTOR SD X X TESTED: 2/23/1	
10020022	
10020023 48FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR SD X X TESTED: 3/14/1	
10020024 48FL CORRIDOR AT #48C SMOKE DETECTOR SD X X X TESTED: 2/23/16	
10020025 48FL CORRIDOR AT ELEV SMOKE DETECTOR SD X X X TESTED: 2/23/10	6
10020026 48FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR SD X X TESTED: 3/16/16	6, RECALLED
10020027 48FL CORRIDOR AT #48B SMOKE DETECTOR SD X X X TESTED: 2/23/10	
10020028 49FL ELECTRICAL ROOM SMOKE DETECTOR SD X X TESTED: 2/23/10	
10020030   49FL CORRIDOR AT #49F SMOKE DETECTOR   SD   X   X   X   TESTED: 2/23/10	
10020031 49FL CORRIDOR AT #49E SMOKE DETECTOR SD X X X TESTED: 2/23/16	
10020032 49FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR SD X X X TESTED: 3/16/16	
10020033 49FL CORRIDOR AT #49C SMOKE DETECTOR SD X X X TESTED: 2/23/16	6
10020034 49FL CORRIDOR AT ELEV SMOKE DETECTOR SD X X X TESTED: 2/23/16	3
10020035 49FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR SD X X X TESTED: 3/15/16	
THE TELEVISION OF COLUMN THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION TO THE TELEVISION THE TELEVISION THE TELEVISION THE TELEVISION THE TELEVISION THE TELEVISION THE TELEVISION	-, or

	49FL CORRIDOR AT #49B SMOKE DETECTOR	SD	Х				TESTED: 2/23/16	
	50FL ELECTRICAL ROOM SMOKE DETECTOR	SD	X	<u> </u>			TESTED: 2/23/16	
	50FL TRASH ROOM SMOKE DETECTOR	SD	X	<u>L</u>			TESTED: 2/23/16	
	50FL CORRIDOR AT #50F SMOKE DETECTOR	SD	X		X		TESTED: 2/23/16	
10020040	50FL CORRIDOR AT #50E SMOKE DETECTOR	SD	X		X		TESTED: 2/23/16	
10020041	50FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD	X		Х	X	TESTED: 3/16/16, RECALLED	
10020042	50FL CORRIDOR AT #50C SMOKE DETECTOR	SD	X		X	X	TESTED: 2/23/16	
10020043	50FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	X		X	X	TESTED: 2/23/16	
10020044	50FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	X		X	X	TESTED: 3/16/16, RECALLED	
10020045	50FL CORRIDOR AT #50B SMOKE DETECTOR	SD	Х		X	Х	TESTED: 2/23/16	
10020046	51FL ELECTRICAL ROOM SMOKE DETECTOR	SD	Х		Х	X	TESTED: 2/22/16	
	51FL TRASH ROOM SMOKE DETECTOR	SD	X		X	X	TESTED: 2/22/16	
	51FL CORRIDOR AT #51F SMOKE DETECTOR	SD	X		X	Х	TESTED: 2/22/16	
	51FL CORRIDOR AT #51E SMOKE DETECTOR	SD	X				TESTED: 2/22/16	
	51FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD	X	Н	_	_	TESTED: 3/14/16, RECALLED	
	51FL CORRIDOR AT #51C SMOKE DETECTOR	SD	X				TESTED: 2/22/16	
	51FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	x	├─┤		_	TESTED: 2/22/16	
		SD		-1	÷	-	TESTED: 3/16/16, RECALLED	
	51FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR		<del>∨</del>	$\vdash$				
	51FL CORRIDOR AT #51B SMOKE DETECTOR	SD	Ϋ́	$\vdash \vdash$	X		TESTED: 2/22/16	
	52FL ELECTRICAL ROOM SMOKE DETECTOR	SD	X	$\vdash$	X	I Š	TESTED: 2/22/16	
	52FL TRASH ROOM SMOKE DETECTOR	SD	X		X	I X	TESTED: 2/22/16	
	52FL CORRIDOR AT #52F SMOKE DETECTOR	SD	X		X		TESTED: 2/22/16	
	52FL CORRIDOR AT #52E SMOKE DETECTOR	SD	X	igsqcut	Х		TESTED: 2/22/16	
	52FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD	X	$oxed{oxed}$	Х	_	TESTED: 3/16/16, RECALLED	
	52FL CORRIDOR AT #52C SMOKE DETECTOR	SD	Х	$\square$	Х		TESTED: 2/22/16	
10020061	52FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	Х	$\Box$	×	X	TESTED: 2/22/16	
10020062	52FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 3/16/16, RECALLED	
10020063	52FL CORRIDOR AT #52B SMOKE DETECTOR	SD	Х	$\Box$	Х	Х	TESTED: 2/22/16	
10020064	53FL ELECTRICAL ROOM SMOKE DETECTOR	SD	Х		Х	X	TESTED: 2/22/16	
10020065	53FL TRASH ROOM SMOKE DETECTOR	SD	X		Х	X	TESTED: 2/22/16	
10020066	53FL CORRIDOR AT #53F SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/22/16	
	53FL CORRIDOR AT #53E SMOKE DETECTOR	SD	Х		Х	X	TESTED: 2/22/16	
10020068	53FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD	Х		Х	X	TESTED: 3/16/16, RECALLED	
	53FL CORRIDOR AT #53C SMOKE DETECTOR	SD	X		X		TESTED: 2/22/16	
	53FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	X		X	_	TESTED: 2/22/16	
	53FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	X		X		TESTED: 3/16/16, RECALLED	
	53FL CORRIDOR AT #53B SMOKE DETECTOR	SD	X	-	X		TESTED: 2/22/16	
	54FL ELECTRICAL ROOM SMOKE DETECTOR	SD	Ŷ	-1	x	_	TESTED: 2/22/16	
	54FL TRASH ROOM SMOKE DETECTOR	SD	Ŷ				TESTED: 2/22/16	
					X			
	54FL CORRIDOR AT #54F SMOKE DETECTOR	SD	X		X		TESTED: 2/22/16	
	54FL CORRIDOR AT #54E SMOKE DETECTOR	SD	Х		Х		TESTED: 2/22/16	
	54FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD	Х		Х		TESTED: 3/16/16, RECALLED	
	54FL CORRIDOR AT #54C SMOKE DETECTOR	SD	X	$\sqcup$	Х		TESTED: 2/22/16	
	54FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	Х		Х		TESTED: 2/22/16	
	54FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	X	$oxed{oxed}$	Х		TESTED: 3/15/16, RECALLED	
	54FL CORRIDOR AT #54B SMOKE DETECTOR	SD	X		Х		TESTED: 2/22/16	
	55FL ELECTRICAL ROOM SMOKE DETECTOR	SD	Х				TESTED: 2/22/16	
10020083	55FL TRASH ROOM SMOKE DETECTOR	SD	Х				TESTED: 2/22/16	
	55FL CORRIDOR AT #55F SMOKE DETECTOR	SD	Х		X	X	TESTED: 2/22/16	
10020085	55FL CORRIDOR AT #55E SMOKE DETECTOR	SD	Х		Χ	Х	TESTED: 2/22/16	
10020086	55FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD	Х		Х	X	TESTED: 3/16/16, RECALLED	
	55FL CORRIDOR AT #55C SMOKE DETECTOR	SD	X		Х		TESTED: 2/22/16	
	55FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	X	-			TESTED: 2/22/16	
	55FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	X	1		_	TESTED: 3/16/16, RECALLED	
	55FL CORRIDOR AT #55B SMOKE DETECTOR	SD	$\hat{\mathbf{x}}$				TESTED: 2/22/16	
	56FL ELECTRICAL ROOM SMOKE DETECTOR	SD	X		x		TESTED: 2/22/16	
	56FL TRASH ROOM SMOKE DETECTOR	SD	Ŷ	$\dashv$	ŵ		TESTED: 2/22/16	
	56FL CORRIDOR AT #56F SMOKE DETECTOR	SD	Ŷ		ŵ		TESTED: 2/22/16	
	<u> </u>				_		TESTED: 2/22/16	
	56FL CORRIDOR AT #56E SMOKE DETECTOR	SD	X		Ŷ	_		
10020095	56FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD	X		X		TESTED: 3/16/16, RECALLED	
	56FL CORRIDOR AT #56C SMOKE DETECTOR	SD	X	$\dashv$	X		TESTED: 2/22/16	
10020096		SD	Х	- 1	Х	X	TESTED: 2/22/16	
10020096 10020097	56FL CORRIDOR AT ELEV SMOKE DETECTOR		$\overline{}$					
10020096 10020097 10020098	56FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	Х		Х		TESTED: 3/16/16, RECALLED	•
10020096 10020097 10020098	<u></u>		X X			Х	TESTED: 3/16/16, RECALLED TESTED: 2/22/16	
10020096 10020097 10020098 10020099	56FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 3/16/16, RECALLED	•

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	46FL EXHAUST FSD 46-3 CONTROL MODULE	CR	X	<u> </u>	<u> </u>		TESTED: 2/24/16
10020129	47FL SUPPLY FSD 47-1 CLOSED STATUS	СТ	X	<u></u>		<u> </u>	TESTED: 2/24/16
10020130	47FL SUPPLY FSD 47-2 CLOSED STATUS	CT	X	<u> </u>	<u> </u>		TESTED: 2/24/16
10020131	47FL EXHAUST FSD 47-3 CONTROL MODULE	CR	X			Γ	TESTED: 2/24/16
10020132	48FL SUPPLY FSD 48-1 CLOSED STATUS	СТ	Х	П			TESTED: 2/24/16
10020133	48FL SUPPLY FSD 48-2 CLOSED STATUS	СТ	X		1		TESTED: 2/24/16
	48FL EXHAUST FSD 48-3 CONTROL MODULE	CR	Х		<del>                                     </del>	一	TESTED: 2/24/16
	49FL SUPPLY FSD 49-1 CLOSED STATUS	CT	X	┰	├	┢	TESTED: 2/24/16
		CT	Î	<del> </del>		├	TESTED: 2/24/16
	49FL SUPPLY FSD 49-2 CLOSED STATUS			<u></u>	ļ	├	I
	49FL EXHAUST FSD 49-3 CONTROL MODULE	CR	X	<u> </u>		L	TESTED: 2/24/16
	50FL SUPPLY FSD 50-1 CLOSED STATUS	CT	X	<u></u>	<u> </u>	<u> </u>	TESTED: 2/24/16
10020139	50FL SUPPLY FSD 50-2 CLOSED STATUS	CT	X				TESTED: 2/24/16
10020140	50FL EXHAUST FSD 50-3 CONTROL MODULE	CR	X				TESTED: 2/24/16
10020141	51FL SUPPLY FSD 51-1 CLOSED STATUS	СТ	X				TESTED: 2/24/16
	51FL SUPPLY FSD 51-2 CLOSED STATUS	CT	X		1		TESTED: 2/24/16
	51FL EXHAUST FSD 51-3 CONTROL MODULE	CR	X		<del> </del>		TESTED: 2/24/16
	52FL SUPPLY FSD 52-1 CLOSED STATUS	CT	Î	$\vdash$	<del> </del>	<del>                                     </del>	TESTED: 2/24/16
	52FL SUPPLY FSD 52-1 CLOSED STATUS	CT	Î		-	├	TESTED: 2/24/16
	La contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contractio			-	ļ	<u> </u>	
	52FL EXHAUST FSD 52-3 CONTROL MODULE	CR	X	ļ	<u> </u>	<u> </u>	TESTED: 2/24/16
	53FL SUPPLY FSD 53-1 CLOSED STATUS	CT	X	<b> </b>	<u> </u>	<u> </u>	TESTED: 2/24/16
i	53FL SUPPLY FSD 53-2 CLOSED STATUS	CT	Х	<u> </u>		L	TESTED: 2/24/16
10020149	53FL EXHAUST FSD 53-3 CONTROL MODULE	CR	Х			L	TESTED: 2/24/16
10020150	54FL SUPPLY FSD 54-1 CLOSED STATUS	CT	Х		l	l	TESTED: 2/24/16
10020151	54FL SUPPLY FSD 54-2 CLOSED STATUS	CT	Х				TESTED: 2/24/16
	54FL EXHAUST FSD 54-3 CONTROL MODULE	CR	X		$\vdash$	<del>                                     </del>	TESTED: 2/24/16
<u>_</u>	55FL SUPPLY FSD 55-1 CLOSED STATUS	CT	X	-		<del> </del>	TESTED: 2/24/16
			Ŷ				
	55FL SUPPLY FSD 55-2 CLOSED STATUS	CT		<u> </u>			TESTED: 2/24/16
	55FL EXHAUST FSD 55-3 CONTROL MODULE	CR	X	<u> </u>	ļ		TESTED: 2/24/16
	56FL SUPPLY FSD 56-1 CLOSED STATUS	CT	X				TESTED: 2/24/16
10020157	56FL SUPPLY FSD 56-2 CLOSED STATUS	CT	X				TESTED: 2/24/16
10020158	56FL EXHAUST FSD 56-3 CONTROL MODULE	CR	X				TESTED: 2/24/16
10020159	48FL FSD T48-4 CONTROL MODULE	CR	Х			_	TESTED: 2/24/16
	48FL SUPPLY FSD RISER T41-2 THRU T59-2 RLY	CR	X			-	TESTED: 2/24/16
	48FL SUPPLY FSD RISER T41-1 THRU T59-1 RLY	CR	X		<del> </del>		TESTED: 2/24/16
		SD			$\vdash$	<del></del>	TESTED: 2/22/16
	57FL ELECTRICAL ROOM SMOKE DETECTOR		X	<u> </u>	X	-	
	57FL TRASH ROOM SMOKE DETECTOR	SD	Х		X		TESTED: 2/22/16
	57FL CORRIDOR AT #57F SMOKE DETECTOR	SD	Х		Х	_	TESTED: 2/22/16
11020004	57FL CORRIDOR AT #57E SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/22/16
11020005	57FL ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD	Х		Х	X	TESTED: 3/14/16, RECALLED
11020006	57FL CORRIDOR AT #57C SMOKE DETECTOR	SD	X		Х	Х	TESTED: 2/22/16
	57FL CORRIDOR AT ELEV SMOKE DETECTOR	SD	Х		х		TESTED: 2/22/16
	57FL ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	X		X		TESTED: 3/16/16, RECALLED
	57FL CORRIDOR AT #57B SMOKE DETECTOR	SD	Ŷ		x		TESTED: 2/22/16
				_			
	PH1 ELECTRICAL ROOM SMOKE DETECTOR	SD	X		X		TESTED: 2/22/16
	PH1 TRASH ROOM SMOKE DETECTOR	SD	Х		Х		TESTED: 2/22/16
	PH1 CORRIDOR AT #PH1A SMOKE DETECTOR	SD	Х		Х		TESTED: 2/22/16
11020013	PH1 CORRIDOR AT #PH1D SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/22/16
11020014	PH1 ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 3/16/16, RECALLED
11020015	PH1 CORRIDOR AT #PH1C SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/22/16
	PH1 CORRIDOR AT ELEV SMOKE DETECTOR	SD	Х		Х	X	TESTED: 2/22/16
	PH1 ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	Ŷ		X		TESTED: 3/16/16, RECALLED
	PH1 CORRIDOR AT #PH1B SMOKE DETECTOR	SD	Ŷ				TESTED: 2/22/16
			_		X		
	PH2 ELECTRICAL ROOM SMOKE DETECTOR	SD	Х		X		TESTED: 2/22/16
	PH2 TRASH ROOM SMOKE DETECTOR	SD	Х		Х		TESTED: 2/22/16
	PH2 CORRIDOR AT #PH2A SMOKE DETECTOR	SD	Х		Х		TESTED: 2/22/16
11020022	PH2 CORRIDOR AT #PH2B SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/22/16
11020023	PH2 ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 3/16/16, RECALLED
	PH2 CORRIDOR AT #PH2B SMOKE DETECTOR	SD	X		Х		TESTED: 2/22/16
	PH2 CORRIDOR AT ELEV SMOKE DETECTOR	SD	X		X		TESTED: 2/22/16
	PH2 ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	$\frac{\hat{x}}{x}$	-	x		TESTED: 3/15/16, RECALLED
	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon			<del>.  </del>	-		
	PH2 CORRIDOR AT #PH2A SMOKE DETECTOR	SD	X		X		TESTED: 2/22/16
	GPH ELECTRICAL ROOM SMOKE DETECTOR	SD	Х		X		TESTED: 2/22/16
11020029	GPH TRASH ROOM SMOKE DETECTOR	SD	X	I	Х		TESTED: 2/22/16
11020030	GPH CORRIDOR AT #GPHA SMOKE DETECTOR	SD	Х		X		TESTED: 2/22/16
11020031	GPH CORRIDOR AT #GPHB SMOKE DETECTOR	SD	X		Х	Х	TESTED: 2/22/16
11020032	GPH ELEVATOR S1 & S2 LOBBY SMOKE DETECTOR	SD	Х		Х		TESTED: 3/16/16, RECALLED
							· · · · · · · · · · · · · · · · · · ·

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	GPH CORRIDOR AT #GPHB SMOKE DETECTOR	SD	X	<u> </u>	X		TESTED: 2/22/16
	GPH CORRIDOR AT ELEV SMOKE DETECTOR	SD	X	L	Х		TESTED: 2/22/16
	GPH ELEVATOR C1-C3 LOBBY SMOKE DETECTOR	SD	X	L	Х		TESTED: 3/16/16, RECALLED
11020036	GPH STE A ENTERANCE SMOKE DETECTOR	SD	X		Х	X	TESTED: 2/22/16
11020037	59FL BOILER ROOM #2 SMOKE DETECTOR	SD	Х		Х	X	TESTED: 2/23/16
11020038	59FL ELECTRICAL ROOM SMOKE DETECTOR	SD	Х		Х	Х	TESTED: 2/23/16
11020039	59FL FAN SF T59-2 DUCT DETECTOR	DD	Х		Х	X	TESTED: 3/7/16
11020040	59FL FAN SF T59-1 DUCT DETECTOR	DD	X		Х	X	TESTED: 3/7/16
11020041	60FL ELEVATOR MACH RM SMOKE DETECTOR	SD	Х		Х	X	TESTED: 3/15/16, RECALLED
	60FL ELEVATOR MACH RM SMOKE DETECTOR	SD	X		X		TESTED: 3/15/16, RECALLED
	60FL ELEVATOR MACH RM HEAT DETECTOR	HD	X	-	X		TESTED: 3/15/16, SHUNTED
	60FL ELEVATOR MACH RM HEAT DETECTOR	HD	Î	-	$\hat{\mathbf{x}}$		TESTED: 3/15/16, SHUNTED
		HD	x	-	x		TESTED: 3/15/16, SHUNTED
	60FL ELEVATOR MACH RM HEAT DETECTOR	HD	x		Ŷ		TESTED: 3/15/16, SHUNTED
	60FL ELEVATOR MACH RM HEAT DETECTOR	HD	x		Ŷ		TESTED: 3/15/16, SHUNTED
	60FL ELEVATOR MACH RM HEAT DETECTOR	HD	Î	H	Ŷ		TESTED: 3/15/16, SHUNTED
	60FL ELEVATOR MACH RM HEAT DETECTOR	HD	X	L	X		TESTED: 3/15/16, SHUNTED
	60FL ELEVATOR MACH RM HEAT DETECTOR	HD	X		X		TESTED: 3/15/16, SHUNTED
	60FL ELEVATOR MACH RM HEAT DETECTOR	HD	Х		Χ		TESTED: 3/15/16, SHUNTED
	60FL ELEVATOR MACH RM HEAT DETECTOR	HD	Х		Χ		TESTED: 3/15/16, SHUNTED
	60FL ELEVATOR MACH RM HEAT DETECTOR	HD	Х		Х		TESTED: 3/15/16, SHUNTED
	PH2 CORRIDOR AT #PH2B SMOKE DETECTOR	SD	Х		Х		TESTED: 2/22/16
11020055	PH2B DUCT DETECTOR FAN HP-4	DD	Х		Х	Х	TESTED: 3/17/16
11020056	PH2B DUCT DETECTOR FAN HP-5	DD	Х		Х	X	TESTED: 3/17/16
11020057	PH2B DUCT DETECTOR FAN HP-6	DD	Х		Х	Х	TESTED: 3/17/16
11020125	59FL FAN AC T59-1 DUCT DETECTOR	DD	Х		Х	Х	TESTED: 3/7/16
11020126	57FL SUPPLY FSD 57-1 CLOSED STATUS	СТ	Х				TESTED: 2/24/16
	57FL SUPPLY FSD 57-2 CLOSED STATUS	CT	X				TESTED: 2/24/16
	57FL EXHAUST FSD 57-3 CONTROL MODULE	CR	X				TESTED: 2/24/16
	PH1 SUPPLY FSD PH1-1 CLOSED STATUS	CT	x		-		TESTED: 2/24/16
	PH1 SUPPLY FSD PH1-2 CLOSED STATUS	CT	x	Н			TESTED: 2/24/16
	PH1 EXHAUST FSD PH1-3 CONTROL MODULE	CR	x				TESTED: 2/24/16
		CT	÷				TESTED: 2/24/16
	PH2 SUPPLY FSD PH1-1 CLOSED STATUS						
	PH2 SUPPLY FSD PH2-2 CLOSED STATUS	CT	X				TESTED: 2/24/16
	PH2 EXHAUST FSD PH2-3 CONTROL MODULE	CR	X				TESTED: 2/24/16
	GPH SUPPLY FSD GPH-1 CLOSED STATUS	CT	Χ				TESTED: 2/24/16
	GPH SUPPLY FSD GPH-2 CLOSED STATUS	CT	Χ				TESTED: 2/24/16
	GPH EXHAUST FSD GPH-3 CONTROL MODULE	CR	Х				TESTED: 2/24/16
	GPHB A/V CLOSET FSD AND SF-1 SHUTDOWN RLY	CR	X				TESTED: 2/24/16
	PH2B CONTROL RELAY AUDIO SHUTDOWN	CR	Х				TESTED: 3/8/16
11020144	59FL SUPPLY FSD T32 CLOSED STATUS	CT	Х				TESTED: 2/24/16
11020145	59FL SUPPLY FSD T31 CLOSED STATUS	CT	Х				TESTED: 2/24/16
11020146	59FL FAN SF T59-2 POWER DISCONNECT	CT	Х				TESTED: 3/3/16
11020147	59FL FAN EF-T59-26 POWER DISCONNECT	CT	Х				TESTED: 3/3/16
11020148	59FL FAN SF T59-1 POWER DISCONNECT	CT	Х	$\neg$	$\neg$		TESTED: 3/3/16
11020149	59FL FAN AC T59-1 POWER DISCONNECT	CT	Х				TESTED: 3/3/16
	59FL FAN SF T59-2 'ON' MODULE	CT	X		$\neg 1$	$\neg$	TESTED: 2/24/16
	59FL FAN SF T59-2 'OFF' MODULE	CT	Х	$\neg$			TESTED: 2/24/16
	59FL FAN EF T59-26 'ON' MODULE	CT	X				TESTED: 2/24/16
	59FL FAN EF T59-26 'OFF' MODULE	ČŤ	$\hat{\mathbf{x}}$	$\dashv$			TESTED: 2/24/16
	59FL FAN SF T59-1 'ON' MODULE	승	Ŷ				TESTED: 2/24/16
							TESTED: 2/24/16
	59FL FAN SF T59-1 'OFF' MODULE	CT	X			:	
	59FL FAN AC T59-1 'ON' MODULE	CT	X				TESTED: 2/24/16
11020157	59FL FAN SF T59-1 'OFF' MODULE	CT	Х				TESTED: 2/24/16
	ELEV CAB C1 & MACH RM FIREFIGHTER'S PHONE	CC	X				TESTED: 3/4/16
	ELEV CAB C2 FIREFIGHTER'S PHONE	CC	X				TESTED: 3/4/16
	ELEV CAB C3 FIREFIGHTER'S PHONE	CC	Х		I		TESTED: 3/4/16
	ELEV CAB S1 FIREFIGHTER'S PHONE	CC	Х	I	]		TESTED: 3/4/16
11020164	ELEV CAB S2 FIREFIGHTER'S PHONE	CC	Х	$\Box$			TESTED: 3/4/16
11020165	ELEVATOR CAB C1 SPEAKER TROUBLE	CC	X				TESTED: 3/8/16
	ELEVATOR CAB C2 SPEAKER TROUBLE	CC	Х	$\neg \uparrow$		$\neg \uparrow$	TESTED: 3/8/16
11020166			X	$\neg$		_	TESTED: 3/8/16
	ELEVATOR CAB C3 SPEAKER TROUBLE	CC					
11020167	ELEVATOR CAB C3 SPEAKER TROUBLE ELEVATOR CAB S1 SPEAKER TROUBLE			$\dashv$	-	_	
11020167 11020168	ELEVATOR CAB S1 SPEAKER TROUBLE	CC	Х	$\dashv$			TESTED: 3/8/16
11020167 11020168 11020169	ELEVATOR CAB S1 SPEAKER TROUBLE ELEVATOR CAB S2 SPEAKER TROUBLE	CC CC	X X				TESTED: 3/8/16 TESTED: 3/8/16
11020167 11020168 11020169 11020170	ELEVATOR CAB S1 SPEAKER TROUBLE	CC	Х				TESTED: 3/8/16

11020172   60FL ELEV MACH RM S1 PRIMARY RECALL   CR   X   TESTED: 3/14/16     11020173   60FL ELEV MACH RM S1 ALTERNATE RECALL   CR   X   TESTED: 3/14/16     11020174   60FL ELEV MACH RM C1-C3 PRIMARY RECALL   CR   X   TESTED: 3/15/16     11020175   60FL ELEV MACH RM C1-C3 ALTERNATE RLY   CR   X   TESTED: 3/15/16     11020176   60FL ELEY DMP T60-2 SHUTDOWN RELAY   CR   X   TESTED: 3/15/16     11020177   60FL HEAT PUMP T60-3 SHUTDOWN RELAY   CR   X   TESTED: 3/15/16     11020178   60FL HEAT PUMP T60-3 SHUTDOWN RELAY   CR   X   TESTED: 3/15/16     11020178   61FL FAN ST T61-1 'ON' MODULE   CT   X   TESTED: 2/24/16     11020180   61FL FAN ST T61-1 'ON' MODULE   CT   X   TESTED: 2/24/16     11020180   61FL FAN ST T61-1 'POWER DISCONNECT   CT   X   TESTED: 3/3/16     11020181   PH2B CONTROL RELAY FAN HP-3 SHUTDOWN   CR   X   TESTED: 3/3/16     11020182   PH2B CONTROL RELAY FAN HP-3 SHUTDOWN   CR   X   TESTED: 3/17/16     11020183   PH1 UNIT FSD PH1-4 CONTROL MODULE   CR   X   TESTED: 2/24/16     11020184   PH1 UNIT FSD PH1-5 CONTROL MODULE   CR   X   TESTED: 2/24/16     11020185   PH2B SPEAKER CIRCUIT   CC   X   TESTED: 3/8/16     11020186   PH2B SPEAKER CIRCUIT   CC   X   TESTED: 3/8/16     11020187   PH2B LEVEL PH2B DOOR HOLDER RELAY   CR   X   TESTED: 3/8/16     11020188   PH2B STROBE TROUBLE CHECK BOOSTER PANEL   CC   X   TESTED: 3/8/16     11020189   PH2B SUPERVISORY CO2 / SMOKE DETECTOR   CT   X   X   TESTED: 3/8/16     11020199   PH2B SUPERVISORY CO2 / SMOKE DETECTOR   CT   X   X   TESTED: 3/8/16     11020191   PH2B CONTROL RELAY FAN HP-3 SHUTDOWN   CR   X   TESTED: 3/8/16     11020192   PH2B CONTROL RELAY FAN HP-3 SHUTDOWN   CR   X   TESTED: 3/8/16     11020193   PH2B CONTROL RELAY FAN HP-3 SHUTDOWN   CR   X   TESTED: 3/8/16     11020194   PH2B CONTROL RELAY FAN HP-3 SHUTDOWN   CR   X   TESTED: 3/17/16     11020195   PH2B CONTROL RELAY FAN HP-3 SHUTDOWN   CR   X   TESTED: 3/17/16     11020196   PH2B CONTROL RELAY FAN HP-3 SHUTDOWN   CR   X   TESTED: 3/17/16     11020197   PH2B CONTROL RELAY FAN HP-3 SHUTDO											
11020174   60FL ELEV MACH RM C1-C3 PRIMARY RECALL   CR	11020172	60FL ELEV MACH RM S1 PRIMARY RECALL	CR					TESTED: 3/14/16	]		
11020175   60FL ELEV MACH RM C1-C3 ALTERNATE RLY	11020173	60FL ELEV MACH RM S1 ALTERNATE RECALL	CR	X				TESTED: 3/14/16	1		
11020176	11020174	60FL ELEV MACH RM C1-C3 PRIMARY RECALL	CR	X				TESTED: 3/15/16	1		
11020177   60FL HEAT PUMP T60-1 SHUTDOWN RELAY	11020175	60FL ELEV MACH RM C1-C3 ALTERNATE RLY	CR	X				TESTED: 3/15/16	7		
11020178	11020176	60FL HEAT PUMP T60-2 SHUTDOWN RELAY	CR	X				TESTED: 3/15/16	1		
11020179	11020177	60FL HEAT PUMP T60-1 SHUTDOWN RELAY	CR	X		$\neg$		TESTED: 3/15/16	1		
11020180	11020178	61FL FAN SF T61-1 'ON' MODULE	CT	X		7		TESTED: 2/24/16	1		
11020181   PH2B CONTROL RELAY FAN HP-1 SHUTDOWN	11020179	61FL FAN SF T61-1 'OFF' MODULE	СТ	X				TESTED: 2/24/16	1		
11020182	11020180	61FL FAN SF T61-1 POWER DISCONNECT	СТ	X		$\neg$		TESTED: 3/3/16	1		
11020183         PH1 UNIT FSD PH1-4 CONTROL MODULE         CR         X         TESTED: 2/24/16           11020184         PH1 UNIT FSD PH1-5 CONTROL MODULE         CR         X         TESTED: 2/24/16           11020185         PH2A SPEAKER CIRCUIT         CC         X         TESTED: 3/8/16           11020186         PH2B SPEAKER CIRCUIT         CC         X         TESTED: 3/8/16           11020187         PH2 LEVEL PH2B DOOR HOLDER RELAY         CR         X         TESTED: 3/8/16           11020188         PH2B STROBE TROUBLE CHECK BOOSTER PANEL         CC         X         TESTED: 3/8/16           11020189         PH2B SUPERVISORY CO2 / SMOKE DETECTOR         CT         X         X         TESTED: 3/17/16           11020190         PH2B SUPERVISORY FIREPLACE CO2 SENSORS         CT         X         X         X         TESTED: 3/17/16           11020191         PH2B CONTROL RELAY FAN HP-4 SHUTDOWN         CR         X         X         TESTED: 3/17/16           11020192         PH2B CONTROL RELAY FAN HP-5 SHUTDOWN         CR         X         TESTED: 3/17/16           11020194         PH2B CONTROL RELAY FAN HP-3 SHUTDOWN         CR         X         TESTED: 3/17/16           11020195         PH2B CONTROL RELAY FAN HP-3 SHUTDOWN         CR         X	11020181	PH2B CONTROL RELAY FAN HP-1 SHUTDOWN	CR	X		$\neg$		TESTED: 3/17/16	1		
11020184	11020182	PH2B CONTROL RELAY FAN HP-2 SHUTDOWN	CR	X		T		TESTED: 3/17/16	1		
11020185	11020183	PH1 UNIT FSD PH1-4 CONTROL MODULE	CR	X				TESTED: 2/24/16	1		
11020186	11020184	PH1 UNIT FSD PH1-5 CONTROL MODULE	CR	Х				TESTED: 2/24/16	1		
11020187         PH2 LEVEL PH2B DOOR HOLDER RELAY         CR         X         TESTED: 3/8/16           11020188         PH2B STROBE TROUBLE CHECK BOOSTER PANEL         CC         X         TESTED: 3/8/16           11020189         PH2B SUPERVISORY CO2 / SMOKE DETECTOR         CT         X         X         X         TESTED: 3/17/16           11020190         PH2B SUPERVISORY FIREPLACE CO2 SENSORS         CT         X         X         X         TESTED: 3/17/16           11020191         PH2B CONTROL RELAY GAS SHUTOFF SOLINOID         CR         X         TESTED: 3/8/16           11020192         PH2B CONTROL RELAY FAN HP-4 SHUTDOWN         CR         X         TESTED: 3/17/16           11020193         PH2B CONTROL RELAY FAN HP-5 SHUTDOWN         CR         X         TESTED: 3/17/16           11020194         PH2B CONTROL RELAY FAN HP-3 SHUTDOWN         CR         X         TESTED: 3/17/16           11020195         PH2B CONTROL RELAY FAN HP-6 SHUTDOWN         CR         X         TESTED: 3/17/16           11020248         59FL EXH FAN RELAY E-EXH FANS LOW SPEED         CR         X         TESTED: 2/24/16           11020249         59FL EXH FAN RELAY EXH FANS LOW SPEED         CR         X         TESTED: 2/24/16	11020185	PH2A SPEAKER CIRCUIT	CC	X		_		TESTED: 3/8/16	1		
11020188         PH2B STROBE TROUBLE CHECK BOOSTER PANEL         CC         X         TESTED: 3/8/16           11020189         PH2B SUPERVISORY CO2 / SMOKE DETECTOR         CT         X         X         X         TESTED: 3/17/16           11020190         PH2B SUPERVISORY FIREPLACE CO2 SENSORS         CT         X         X         X         TESTED: 3/17/16           11020191         PH2B CONTROL RELAY GAS SHUTOFF SOLINOID         CR         X         TESTED: 3/8/16           11020192         PH2B CONTROL RELAY FAN HP-4 SHUTDOWN         CR         X         TESTED: 3/17/16           11020193         PH2B CONTROL RELAY FAN HP-5 SHUTDOWN         CR         X         TESTED: 3/17/16           11020194         PH2B CONTROL RELAY FAN HP-3 SHUTDOWN         CR         X         TESTED: 3/17/16           11020195         PH2B CONTROL RELAY FAN HP-6 SHUTDOWN         CR         X         TESTED: 3/17/16           11020248         59FL EXH FAN RELAY E-EXH FANS LOW SPEED         CR         X         TESTED: 2/24/16           11020249         59FL EXH FAN RELAY EXH FANS LOW SPEED         CR         X         TESTED: 2/24/16	11020186	PH2B SPEAKER CIRCUIT	cc	X		7		TESTED: 3/8/16	1		
11020189         PH2B SUPERVISORY CO2 / SMOKE DETECTOR         CT         X         X         X         TESTED: 3/17/16           11020190         PH2B SUPERVISORY FIREPLACE CO2 SENSORS         CT         X         X         X         TESTED: 3/17/16           11020191         PH2B CONTROL RELAY GAS SHUTOFF SOLINOID         CR         X         TESTED: 3/8/16           11020192         PH2B CONTROL RELAY FAN HP-4 SHUTDOWN         CR         X         TESTED: 3/17/16           11020193         PH2B CONTROL RELAY FAN HP-5 SHUTDOWN         CR         X         TESTED: 3/17/16           11020194         PH2B CONTROL RELAY FAN HP-6 SHUTDOWN         CR         X         TESTED: 3/17/16           11020195         PH2B CONTROL RELAY FAN HP-6 SHUTDOWN         CR         X         TESTED: 3/17/16           11020248         59FL EXH FAN RELAY E-EXH FANS LOW SPEED         CR         X         TESTED: 2/24/16           11020249         59FL EXH FAN RELAY EXH FANS LOW SPEED         CR         X         TESTED: 2/24/16	11020187	PH2 LEVEL PH2B DOOR HOLDER RELAY	CR	X		$\neg$		TESTED: 3/8/16	1		
11020190         PH2B SUPERVISORY FIREPLACE CO2 SENSORS         CT         X         X         X         TESTED: 3/17/16           11020191         PH2B CONTROL RELAY GAS SHUTOFF SOLINOID         CR         X         TESTED: 3/8/16           11020192         PH2B CONTROL RELAY FAN HP-4 SHUTDOWN         CR         X         TESTED: 3/17/16           11020193         PH2B CONTROL RELAY FAN HP-5 SHUTDOWN         CR         X         TESTED: 3/17/16           11020194         PH2B CONTROL RELAY FAN HP-3 SHUTDOWN         CR         X         TESTED: 3/17/16           11020195         PH2B CONTROL RELAY FAN HP-6 SHUTDOWN         CR         X         TESTED: 3/17/16           11020248         59FL EXH FAN RELAY E-EXH FANS LOW SPEED         CR         X         TESTED: 2/24/16           11020249         59FL EXH FAN RELAY EXH FANS LOW SPEED         CR         X         TESTED: 2/24/16	11020188	PH2B STROBE TROUBLE CHECK BOOSTER PANEL	CC	X		$\neg$		TESTED: 3/8/16	1		
11020191         PH2B CONTROL RELAY GAS SHUTOFF SOLINOID         CR         X         TESTED: 3/8/16           11020192         PH2B CONTROL RELAY FAN HP-4 SHUTDOWN         CR         X         TESTED: 3/17/16           11020193         PH2B CONTROL RELAY FAN HP-5 SHUTDOWN         CR         X         TESTED: 3/17/16           11020194         PH2B CONTROL RELAY FAN HP-3 SHUTDOWN         CR         X         TESTED: 3/17/16           11020195         PH2B CONTROL RELAY FAN HP-6 SHUTDOWN         CR         X         TESTED: 3/17/16           11020248         59FL EXH FAN RELAY E-EXH FANS LOW SPEED         CR         X         TESTED: 2/24/16           11020249         59FL EXH FAN RELAY EXH FANS LOW SPEED         CR         X         TESTED: 2/24/16	11020189	PH2B SUPERVISORY CO2 / SMOKE DETECTOR	CT	X		ΧŢ	Х	TESTED: 3/17/16	1		
11020192         PH2B CONTROL RELAY FAN HP-4 SHUTDOWN         CR         X         TESTED: 3/17/16           11020193         PH2B CONTROL RELAY FAN HP-5 SHUTDOWN         CR         X         TESTED: 3/17/16           11020194         PH2B CONTROL RELAY FAN HP-3 SHUTDOWN         CR         X         TESTED: 3/17/16           11020195         PH2B CONTROL RELAY FAN HP-6 SHUTDOWN         CR         X         TESTED: 3/17/16           11020248         59FL EXH FAN RELAY E-EXH FANS LOW SPEED         CR         X         TESTED: 2/24/16           11020249         59FL EXH FAN RELAY EXH FANS LOW SPEED         CR         X         TESTED: 2/24/16	11020190	PH2B SUPERVISORY FIREPLACE CO2 SENSORS	CT	X		Χ	Х	TESTED: 3/17/16	1		
11020193         PH2B CONTROL RELAY FAN HP-5 SHUTDOWN         CR         X         TESTED: 3/17/16           11020194         PH2B CONTROL RELAY FAN HP-3 SHUTDOWN         CR         X         TESTED: 3/17/16           11020195         PH2B CONTROL RELAY FAN HP-6 SHUTDOWN         CR         X         TESTED: 3/17/16           11020248         59FL EXH FAN RELAY E-EXH FANS LOW SPEED         CR         X         TESTED: 2/24/16           11020249         59FL EXH FAN RELAY EXH FANS LOW SPEED         CR         X         TESTED: 2/24/16	11020191	PH2B CONTROL RELAY GAS SHUTOFF SOLINOID	CR	X		$\neg$		TESTED: 3/8/16	1 .		
11020194         PH2B CONTROL RELAY FAN HP-3 SHUTDOWN         CR         X         TESTED: 3/17/16           11020195         PH2B CONTROL RELAY FAN HP-6 SHUTDOWN         CR         X         TESTED: 3/17/16           11020248         59FL EXH FAN RELAY E-EXH FANS LOW SPEED         CR         X         TESTED: 2/24/16           11020249         59FL EXH FAN RELAY EXH FANS LOW SPEED         CR         X         TESTED: 2/24/16	11020192	PH2B CONTROL RELAY FAN HP-4 SHUTDOWN	CR	X		T		TESTED: 3/17/16	1		
11020195         PH2B CONTROL RELAY FAN HP-6 SHUTDOWN         CR         X         TESTED: 3/17/16           11020248         59FL EXH FAN RELAY E-EXH FANS LOW SPEED         CR         X         TESTED: 2/24/16           11020249         59FL EXH FAN RELAY EXH FANS LOW SPEED         CR         X         TESTED: 2/24/16	11020193	PH2B CONTROL RELAY FAN HP-5 SHUTDOWN	CR	X		1		TESTED: 3/17/16	1		
11020248         59FL EXH FAN RELAY E-EXH FANS LOW SPEED         CR X         TESTED: 2/24/16           11020249         59FL EXH FAN RELAY EXH FANS LOW SPEED         CR X         TESTED: 2/24/16	11020194	PH2B CONTROL RELAY FAN HP-3 SHUTDOWN	CR	Х				TESTED: 3/17/16	1		
11020249 59FL EXH FAN RELAY EXH FANS LOW SPEED CR X TESTED: 2/24/16	11020195	PH2B CONTROL RELAY FAN HP-6 SHUTDOWN	CR	X		$\neg$		TESTED: 3/17/16	1		
	11020248	59FL EXH FAN RELAY E-EXH FANS LOW SPEED	CR	X				TESTED: 2/24/16	1		
11020250 59FL FAN T59-26 POWER DISCONNECT CT X TESTED: 3/3/16	11020249	59FL EXH FAN RELAY EXH FANS LOW SPEED	CR	X		$\neg$		TESTED: 2/24/16	1		
	11020250	59FL FAN T59-26 POWER DISCONNECT	CT	X		$\neg$		TESTED: 3/3/16	1		
			L		············				1		
	1										

## EXHIBIT

G

**EXHIBIT G** 



#### AUTOMATIC FIRE ALARM SYSTEM INSPECTION/CERTIFICATION

Job Name:	and the second second	JM:TOWER			Showing as	V6/2016 Order#: 3219865
Address:	301 MISSIC				PAGIK C	AUEI:#. 3218803
City:	SAN FRAN	Asimani U	State: CA	Zip; 94105		
Tech, Name;	DARWIN A					Manadala are a series per elemente de 1900 en 1900 en 1900 en 1900 en 1900 en 1900 en 1900 en 1900 en 1900 en La companyación de la companyación en 1900 en 1900 en 1900 en 1900 en 1900 en 1900 en 1900 en 1900 en 1900 en
Central Station		RED HA	WVK.			
Central Station		04-050				Malausellauselle o troc toppe, tartement and imperi
Central Station	n Phone #:	408-629	-4414			
Preliminaries Building Person			Name: ANTONIO	Time: 5:30 AM		By:DA
Central Station	"我们是你的现在分词。"		Operator: BRITNEY	Time: 6:40 AM		By:DA
Pretest Status			☐ Normal	⊠ Átinormal (Exp	lain) PAN	IEL DISABLED
Disconnect Aux	& NAC Function	in Type:	DISABLE BUTTONS	Disconnect after	ertested	
Location of As-E	Built Drawings		NA.			
Original Certifica	ation 🗆		Periodic System Inspe	ection 🗵		
Inspection T	ype	Service P	erformed	Scope of Work Perfo	rmed	% of Device Tested:
⊠ Fire Alarm		☐ Monthly	Inspection	⊠ Full Inspection		□10%
⊠ Sprinkler		☐ Bi-Montl	nly Inspection	☐ Water Flow Inspectio	n	<b>□</b> 25%
Preaction		Quarter	y Inspection	☐ Battery Load Testing		<b>□</b> 50%
☐ FM200		⊠ Semi-Ar	nnual Inspection	10% Trouble Testing		☑ 100%
☐ Exit/ Emerg	jency Lights	☐ Annual I	nspection	☐ NAC Testing		☐ 1 Device/Zone
☐ Fire Exting		Service		☐ Service Repair		⊠ Other
☐ Other		☐ Fire Drill		Monitoring Install /Programming		VALVE TAMPERS
Basic Informa	ation					
Local Alarm	Yes □			Qty of Zones or Lo	ops: NA	
Central Station	Yes ⊠					
Municipal	Yes□			Wired: ⊡Á I	⊠B	
Proprietary	Yes 📋					2000 2008 S
Voice	Yes □			Qty of Active NAC	i New York and the Art	NA.
System Model	: EST-3			Wired: □A [	⊠8	



CONTROL PANEL TEST	COMMENTS
Visual Display	⊠ÑA □Pàss □Fàil
AC Power On - LED	⊠N/A □Pass □Fail
Alamı Silence – LED	⊠N/A □Pass □Fail
Program Fault - LED	⊠N/A □Pass □Fail
Alarm – LED	⊠N/A □Pass □Fail
System Trouble – LED	⊠N/A □ Pass □ Fail
Check all Fuse Ratings	⊠N/A □Pass □Fail
Set Time/Date	⊠N/A □Pass □Fail
Walk Test Silent	⊠N/A □Pass □Fail
Print Log	⊠N/A. □Pass □Faii
Print Detector Sensitivity	⊠n/A □ Pass □ Fail
Cancel Access	⊠N/A, □Pass □Fail
Alarm/Trouble Acknowledge	⊠N/A. □Pass □Faii ⊠N/A. □Pass □Faii
Alarm Silence Resound	⊠N/A □Pass □Fall
Reset/Lamp Test Panel Sounder	⊠N/A □ Pass □ Fail
Ground Type	⊠N/A Pass Fail
Positive Ground Fault	⊠N/A □Pass □Fail
Negative Ground Fault	⊠N/A
Signal Circuit-Short	⊠N/A □Pass □Fail
Signal Circuit-Open	⊠N/A □Pass □Fail
Subsequent Alam/Trouble	⊠N/A □Pass □Fail
Point Dis/Reconnect	⊠N/A □Pass □Fail
AC Disconnect Labeled	⊠N/A □Pass □Fail
AC Breaker Locked On	⊠N/A □Pass □Fail
Clean Door & Window	⊠NA □Pass □Fail
AC Voltage	
Battery Voltage (AC On)	NAX:
Battery Voltage (AC Off)	NAV.
System Voltage (AUX)	NAV.
Battery Load Test (end V)	12.4 V. PASS
Charging Current	
Battery Size (AH)	75 AH PASS
Expiration date	4/2018 PASS YES PASS
Batteries labeled	YES PASS
VOICE EVAC. SYSTEM	COMMENTS:
Model Number	⊠NA □Pass □Fail
Manufactuer Name	⊠N/A □Pass □Fail
Number of Amps	⊠N/A □Pass □Fail
Amp, Model Number	⊠N/A □Pass □Fail
Number of Speaker Zones	⊠N/A □Pass □Fail
Number of Phone Zones	⊠N/A □Pass □Fail
Test all Speakers	⊠N/A
Short Test	⊠N/A
Open Test	⊠N/A □Pass □Fail
Ground Test	⊠N/A □ Pass □ Fail
Test all Handsets	⊠N/A □ Pass □ Fall
Test a∥ Phone Jacks	⊠N/A DPass Fall
Battery Load Test (end M)	
Battery Size	
Expiration Date	
Batteries labeled	
200 Maria 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
H."	



Page

NAC BOOSTERS/POWER SUPPLY         COMMENTS:           Location 1         FACP RM           Number booster tested         PS5           Short NAC Trouble         NVA Pass Fail           Open NAC Trouble         NVA P Fail           Ground Trouble         NVA P Fail           Battery Voltage         NVA P Fail           Battery Load Test         NVA P Fail           Battery Load Test         NVA P Fail           Trouble w/ no a/c         NVA P Fail           Battery A/H         NVA P Fail           Battery Labeled         NVA P Fail           Battery Expires         NVA P Fail           Location 2         B3 ELEC. RM'           Number booster tested         BPS 1           Short NAC Trouble         NVA Pass Fail	പ്പം ഹൈന് വ
Number booster tested Short NAC Trouble Open NAC Trouble Open NAC Trouble Open NAC Trouble Open NAC Trouble  N/A P Fall Ground Trouble A/C Voltage Sattery Voltage Sattery Voltage Sattery Load Test Operate w/ no a/c Trouble w/ no a/c Statery A/H Sattery A/H Sattery A/H Sattery Labeled Sattery Labeled Sattery Expires  D/A P Sattery Expires  Sattery Expires  Bastlery Expires  Short NAC Trouble  N/A P Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Sattery Satte	
Short NAC Trouble	
Open NAC Trouble  Ground Trouble  A/C Voltage  Battery Voltage  Battery Load Test  Operate w/ no a/c  Trouble w/ no a/c  Battery A/H  Battery A/H  Battery Labeled  Battery Labeled  Battery Expires  Battery Expires  Battery Expires  Batter Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Battery Expires  Batte	
Ground Trouble         ⊠N/A         □P         □Fail           A/C Voltage         ⊠N/A         □P         □Fail           Battery Voltage         ⊠N/A         □P         □Fail           Battery Load Test         □N/A         □P         □Fail           Operate w/ no a/c         ⊠N/A         □P         □Fail           Trouble w/ no a/c         ⊠N/A         □P         □Fail           Battery A/H         □N/A         □P         □Fail         35           Battery Labeled         □N/A         □P         □Fail         4/2018           Battery Expires         □N/A         □P         □Fail         4/2018           Location 2         B3 ELEC. RMi         Number booster tested         BPS 1           Short NAC Trouble         ⊠N/A         □Pass         □Fail	
A/C Voltage	
Battery Voltage         NVA         P         Fail           Battery Load Test         NVA         P         Fail         12.3           Operate w/ no a/c         NVA         P         Fail           Trouble w/ no a/c         NVA         P         Fail           Battery A/H         NVA         NVA         P         Fail           Battery Labeled         NVA         P         Fail         4/2018           Battery Expires         NVA         P         Fail         4/2018           Location 2         B3 ELEC. RMi         Number booster tested         BPS 1           Short NAC Trouble         NVA         Pass         Fail	
Battery Load Test	
Operate w/ no a/c         ⊠N/A         □P         □Fail           Trouble w/ no a/c         ⊠N/A         □P         □Fail           Battery A/H         □N/A         ⊠P         □Fail         35           Battery Labeled         □N/A         ⊠P         □Fail         4/2018           Battery Expires         □N/A         ☑P         □Fail         4/2018           Location 2         B3 ELEC. RMI         Number booster tested         BPS 1           Short NAC Trouble         ☑N/A         □Pass         □Fail	
Trouble w/ no a/c         ⊠N/A         □P         □Fall           Battery A/H         □N/A         ☑P         □Fall         35           Battery Labeled         □N/A         ☑P         □Fall         □Fall           Battery Expires         □N/A         ☑P         □Fall         4/2018           Location 2         B3 ELEC: RMI         Number booster tested         BPS 1           Short NAC Trouble         ☑N/A         □Pass         □Fall	
Battery A/H	
Battery A/H	
Battery Expires	
Location 2 B3 ELEC: RMi Number booster tested BPS 1 Short NAC Trouble ⊠N/A Pass □Fall	
Number booster tested BPS 1 Short NAC Trouble ⊠N/A □ Pass □ Fall	
Number booster tested BPS 1 Short NAC Trouble ⊠N/A □ Pass □ Fall	
Short NAC Trouble	
- Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - Angle - An	
Open NAC Trouble ⊠N/A □Pass □Fall	
Ground Trouble N/A Pass Fail	
A/C.Voltage ⊠N/A □Pass □Fail	
Battery Vollage ⊠N/A □Pass □Fall	
Battery Load TestN/A _ ⊠Pass □ Fail 12.4	
Operate W/ no a/c	•
Trouble w/ no a/c   N/A   Pass  Fall	
Battery A/-t	
Battery LabeledN/A _⊠PassFail	
Bettery Expires □N/A ⊠Rass □Fail 4/2018	
Location 3 B3 ELEC RM	
Number booster lested BPS 2	
Short NAC Trouble   N/A   Pass   Fail	
Open NAC Trouble N/A Pass Fall	
지면에 가능한 NUNTER () 클럽 이 경기 이 전 이 이 사람들은 경기를 통해 중 유럽을 제공하다면 하는 경기를 받는 것이다.	
Battery Voltage ⊠N/A □Pass □Fail	
Battery Load Test □ N/A □ Pass □ Fail 12.8	
Operate w/ no a/c ⊠N/A □Pass □Fail	
Trouble w/ no a/c N/A Pass Fail	
Battery A/H □N/A ☑Pass □Fail 7,5	
Battery Labeled □N/A ☑Pass □Fail	
Battery Excites □N/A □Passi □Fail 6/2020	
Location 4 B3 ELEC. RM	
Number pooster tested BPS3	
Short NAC Trouble   N/A   Pass  Fail	
Open NAC Trouble ⊠N/A □Pass □Fail	
Ground Trouble XIN/A Pass Fail	
WCVoltage ⊠N/A □Pass □Fail	
Battery Voltage XIN/A Pass Fail	
Battery Load Test □N/A ☑Pass □Fail 12.4	
Operate w/ no a/c  N/A Pass  Fail	
Trouble w/ no a/c	
Battery A/H	
- 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 1917年 19	
Battery Labeled	*



Location 1	L (MID RISE) ELEC, RM
Number booster tested	BPS4
Short NAC Trouble	NVA □ Pass □ Fail
Open NAC Trouble	⊠N/A (□P □Fail
Ground Trouble	⊠N/A □P □Fail
A/C Voltage	⊠N/A □P □Fail
Battery Voltage	
Sattery Load Test	□NA ⊠P □Fail 12.4
Operaté w/ no a/c	⊠NA □P □Fail
Trouble w/ no a/o	⊠WA □P □Fail
Batlery A/H	□N/A ☑P □Fail 8
Battery Labeled	ÖNVÄ ⊠P □Fail
Battery Expires	□N/A ☑P □Fail 4/2018
(acatlan 4	L (MID RISE) ELEC, RM
Location 2 Number booster tested	BPS.5
Short NAC Trouble	⊠N/A □Pass □Fall
The first of the first of the contract of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of th	⊠N/A □Pass □Fail
Open NAC Trouble	⊠N/A □ Pass □ Fail
Ground Trouble	⊠N/A □Pass □Fail
A/C Voltage	XIVA Pass Fall
Battery Voltage	□N/A ⊠Pass □Fail 12.3
Battery Load Test	N/A □Pass □Fail
Operate w/ no a/c	NVA □Pass □Fall
Trouble w/ no a/c	□N/A ⊠Pass □Fall 8
Battery A/H	□NA ⊠Pass □Fail
Battery Labeled Battery Expires	□N/A ⊠Pass □Fail 4/2018
Daugy Laynes	
Location 3	C (MID RISE) ELEC; RM
Number booster lested	BPS 6
Short NAC Trouble	⊠N/A □ Pass □ Fail
Open NAC Trouble	⊠N/A □Pass □Fall
Ground Trouble	⊠N/A □ Páss □ Fail
A/C Voltage	⊠N/A □Pass □Fall
Battery Voltage	⊠N/A □Pass □Fail
Battery Load Test	□N/A ⊠Pass □Fail 12.3
Operate w/ no a/c	⊠N/A □Pass □Fall
Trouble w/ no a/c	⊠N/A □Pass □Fall
Battery A/H	□N/A ☑Pass □Fail 8
Battery Labeled	□N/A ☑Pass □Fail
Battery Expires	□N/A ⊠Pass □Fall 4/2018
Location 4	CL (MIO RISE) ÉLEC, RM
Number booster tested	BPS 7
Short NAC Trouble	⊠N/A □Pass □Fail
Open NAC Trouble	⊠N/A □Pass □Fail
Ground Trouble	⊠N/A □Pass □Fail
A/C Voltage	⊠N/A □Pass □Fail
Battery Voltage	⊠N/A □ Pass □ Fail
Battery Load Test	□N/A ⊠Pass □Fail 12.3
Operate w/ no a/c	⊠N/A □Pass □Fail
Trouble w/ no a/c	⊠N/A □ Pass □ Fail
Battery A/H	□N/A ⊠Pass □Fail 8
Battery Labeled	□N/A ⊠Pass □Fail
	□N/A ⊠Pass □Fail 4/2018

Tech Name: DARWIN Modified on: 12/5/12



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NAC BOOSTERS/POWER S	UPPLY
Location 1	B1 (TOWER) ELEC: RM
Number booster tested	BPS 6
Short NAC Trouble	⊠N/A □Pass □Fall
Open NAC Trouble	
Ground Trouble	⊠N/A □P □Fall
A/C Voltage	
Battery Voltage	
Battery Load Test	□N/A □P ⊠Fail 11.6 (FAILED), REPLACED BY DA 9/9/16
Operate w/ no a/c	⊠NA □P □Fail
Trouble w/ no a/c	⊠WA □P □Fall
Battery A/H	□NA ⊠P □Fail 7.5
Battery Labeled	□N/A ⊠P □Fail
Battery Expires	□N/A ☑P □Fail 1/2017
Location 2	L (TOWER) ELEC RM
Number booster tested	BPS 9
Short NAC Trouble	⊠N/A □Pass □Fail
Open NAC Trouble	⊠N/A □Pass □Fail
Ground Trouble	⊠NA □Pass □Fail
A/C Voltage	⊠N/A
Battery Voltage	⊠N/A
Battery Load Test	□NA ⊠Pass □Fail 12.4
Operate w/ no e/c	⊠N/A □Pass □Fall
Trouble w/ no a/c	⊠N/A □Pass □Fail
Battery A/H	□N/A ☑Pass □Fail 8
Battery Labeled	□NA ⊠Pass □Fail
Battery Expires	□N/A ⊠Pess □Fail 4/2018
Location 3	CL (TOWER) ELEC, RM
Number booster tested	BPS 10
Short NAC Trouble	⊠Ñ/A □Pass □Fail
Open NAC Trouble	⊠N/A □Pass □Fail
Ground Trouble	⊠N/A □Pass □Fail
A/C Vollage	⊠N/A □Pass □Fail
Batten/Voltage	⊠N/A □Pass □Fai
Battery Load Test	□NÀ ⊠Pass □Faii 12,5
Operate w/ no a/c	⊠N/A □Pass □Fail
Trouble w/ no a/c	⊠N/A □Pass □Fai
Battery A/H	□N/A ☑Pass □Fail 8
Battery Labeled	□N/A ⊠Pass □Fai
Battery Expires	□N/A ⊠Pass □Fail 4/2018
Location 4	L (MID RISE) RESTAURANT STORAGE
Number booster tested	BPS 11
Short NAC Trouble	⊠N/A □Pass □Fair
Ocen NAC Trouble	⊠N/A □Pass □Fali
Ground Trouble	⊠N/A □Pass □Fai
A/C Voltage	⊠n/A □Pass □Fali
Battery Voltage	⊠N/A □Pass □Fail
Battery Load Test	□N/A ⊠Pass □Fail 12.8
Operate w/ no a/c	NA □Pass □Fail
Trouble W no a/c	⊠N/A □Pass □Fail
Battery A/H	□NA ⊠Pass □Fail 7.5
Battery Labeled	□MA ⊠Pass □Fail
Battery Expires	□N/A ☑Pass □Fail 6/2020
(파우) 1975 (1년) 1명학 1일 및 전 등 (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (1993) (	econogo - <del>이 마른 사용 전 프로</del> 프로젝트 - 아이들은 프로젝트 및 이 기술을 한 바소를 받는

Tech Name: DARWIN Date: 9/6/2016; Review deficiencies with Customer ☑ Yes

(Modified on : 12/5/12



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NAC BOOSTERS/POWER S Location 1	SUPPLY FACP RM	
Number booster tested		
Short NAC Trouble	⊠N/A □Pass □Fail	
Open NAC Trouble Ground Trouble	⊠N/A □P □Fall ⊠N/A □P □Fail	
A/C Voltage	⊠NA □P □Fail	
Battery Voltage	⊠NA DP DFail	
Battery Load Test	□NA ⊠P □Fail 12.4	
Operate w/ no a/c		
Trouble w/ no a/c	⊠N/A □P □Fail	
Battery A/H	□N/A ⊠P □Fail 55 □N/A ⊠P □Fail	
Battery Labeled Battery Expires	□N/A ⊠P □Fail 4/2018	
Location 2	B3 ELEC: RM	
Number booster tested	NODE.3	
Short NAC Trouble	⊠N/A □Pass □Fail	
Open NAC Trouble	⊠N/A □Pass □Fall	
Ground Trouble	⊠N/A □Pass □Fail	
A/C Voltage	⊠n/A □Pass □Fall ⊠n/A □Pass □Fall	
Baltery Voltage Baltery Load Test	□N/A ⊠Pass □Fail 12.6	
Operate w/ no a/c	⊠n/A □Pass □Fail	
Trouble w/ no a/c	⊠n/A	
Battery A/H	□N/A ⊠Pass □Fail 55	
Battery Labeled	□N/A ⊠Pass □Fail	
Battery Expires	□N/A ⊠Pass □Fall 10/2018	
Location 3	L (MID RISE) ELEC, RM	
Number booster tested	NODE 4	
Short NAC Trouble	⊠N/A □Pass □Fail ⊠N/A □Pass □Fail	
Open NAC Trouble Ground Trouble	⊠N/A □Pass □Fail	
A/C Voltage	⊠N/A □Pass □Fall	
Battery Voltage	⊠N/A □Pass □Fail	
Battery Load Test	□N/A ⊠Pass □Fail 12.6	
Operate w/ no a/c	⊠N/A □Pass □Fail	
Trouble w/ no a/c	⊠NA □Pass □Fail : □NA ⊠Pass □Fail 55	
Battery A/H Battery Labeled	□N/A ⊠Pass □ Fail 553	
Battery Expires	□N/A □Pass ⊠Fail 10/2018	
Location 4	10TH (MID RISE) ELEC: RM	
Number booster tested	NODE 5	
Short NAC Trouble	⊠N/A □Pass □Fal	
Open NAC Trouble	N/A: □Pass □Fall	
Ground Trouble	⊠N/A □Pass □Fail	
A/C Voltage Battery Voltage	⊠N/A □Pass □Fail ⊠N/A □Pass □Fail	
Battery Load Test	⊠N/A ☐Pass ☐Fail EXPIRED (REPLACED BY DA 9/9/16)	
Operate w/ no a/c	⊠N/A □Pass □Fail	
Trouble w/ no a/c	⊠NA □Pass □Fail	
Battery A/H	□N/A ⊠Pass □Fall 55	
Battery Labeled	□N/A ⊠Pass □Fail	
Battery Expires	□N/A □Pass 図Fail EXPIREO (REPLACED BY DA 9/9/16)	1000-00-00-00-00-00-00-00-00-00-00-00-00
ie: DARWIN	Date 9/6/2018 Review deficiencies with Customer ⊠ Yes	

Tech Name: DARWIN Date: 9/8/2016 Review deficiencies with Customer ⊠ Yes
Modified on : 12/5/12



Page

Location 1	11TH (TOWER) ELEC, RM	
Number booster tested	NODE6	
Short NAC Trouble	⊠N/A □Pass □Fail	
Open NAC Trouble	⊠N/A □P □Fail	
Ground Trouble	⊠N/A □P □Fail	
A/C Voltage	⊠N/A □P □Fail	
Battery Voltage	⊠n/A □P □Fail	
Battery Load Test	□N/A ⊠P □Fail 123	
Operate w/ ho a/c	⊠N/A □P □Fai	
Trouble w/ no a/c	⊠N/A □P (□Fail	
Battery A/H	□NA ⊠P □Fail 55	
Battery Labeled	□N/A ⊠P □Fail	
Battery Expires	□N/A ☑P □Fail 4/2016	
Location 2	21ST (TOWER) ELEC RM	
Number booster tested	NODE 7	
Shart NAC Trouble	⊠N/A □Pass □Fafi	
Open NAC Trouble	⊠N/A □Pass □Fail	
Ground Trouble	⊠N/A □Pass □Fail	
A/C Voltage	⊠N/A □Pass □Fail	
Battery Voltage	⊠N/A □Pass □Fail	
Battery Load Test	□N/A ⊠Pass □Fail 12,4	
Operate w/ no a/c	⊠N/A □Pass □Fai	
Trouble w/ no e/c	⊠N/A □Pass □Fail	
Battery A/H	□N/A ⊠Pass □Fai 55	
Battery Labeled	□N/A ⊠Pass □Fail	
Battery Expires	□N/A ⊠Pass □Fall 4/2018	
Location 3	30TH (TOWER) ELEC, RM	
Number booster tested	NODE 8	
Short NAC Trouble	⊠N/A □Pass □Fall	
Open NAC Trouble	⊠N/A □Pasş □Fall	
Ground Trouble	⊠N/A □Pass □Fall	
A/C Voltage	⊠N/A □Pass □Fall	
Battery Voltage	⊠N/A⁄ □Pass □Fall	
Battery Load Test	□N/A ⊠Pass □Fail 12.5	
Operate w/ no a/c	⊠N/A □ Pass □ Fall	
Trouble w/ no a/c	⊠N/A □Pass □Fail □N/A ⊠Pass □Fail 55	
Battery A/H	□N/A ⊠Pass □Fall 55	
Battery Labeled	□N/A ⊠Pass □Fail	
Battery Expires	⊡N/A ⊠Pass □Fail -4/2018	
Location 4	39TH (TOWER) ELEC, RM	
Number booster tested	NODE 9	
Short NAC Trouble	⊠n/A □Pass □Fail	
Open NAC Trouble	⊠N/A □Pass □Fail	
Ground Trouble	⊠N/A □Passi □Fail	
A/C Voltage	⊠N/A □Pass □Fail	
Battery Voltage	⊠N/A □Pass □Fail	
Bailery Load Test	□N/A ⊠Pass □Fail 12.5	
Operate w/ no a/c	⊠N/A □Pass □Fail	
Trouble w/ no a/c	⊠N/A □Pass □Fail	
Battery A/H	□N/A ⊠Pass □Fail 55	
Battery Labeled Battery Expires	□N/A ⊠Pass □Fail □N/A □Pass ⊠Fail 10/2018	
	· · · · · · · · · · · · · · · · · · ·	

Modified on : 12/5/12



NAC BOOSTERS/POWER SU	IPPLY	and the second second
Location 1 Number booster tesled	49TH (TOWER) ELEC: RM	
	NODE 18	
Short NAC Trouble	⊠N/A □Pass □Fail	
Open NAC Trouble	⊠n/A □P □Faii ⊠n/A □P □Faii	
Ground Trouble	⊠NA □P □Fail ⊠NA □P □Fail	
A/C Voltage Battery Voltage		a. i. Tara saa
Battery Load Test	NA ☐P ☐Fail EXPIRED (REPLACED BY DA 9/9	M81
Daniely Load rest. Operate w/ по a/c	⊠N/A □P □Fail	
Trouble Wino a/c	⊠NA □P □Fail	
Battery A/H	□N/A ☑P □Fall 55	
Battery Labeled	□N/A 区P □Fail	inafi. 1775 se a Sudri III.
Battery Expires	□N/A □P ☑Fall EXPIRED (REPLACED BY DA 9/9	(16)
Location 2	56TH (TOWER) ELEC. RM	
Number booster tested	NODE 11	
Short NAC Trouble	⊠N/A □Pass □Fail	
Open NAC Trouble	⊠N/A □Pass □Fail	
Ground Trouble	⊠N/A	
A/C Voltage	⊠N/A □ Pass □ Fail	
Battery Voltage	⊠N/A □Pass □Fail	
Battery Load Test	□N/A ⊠Pass □Fail 12.4	
Operate w/ no a/c	⊠N/A □ Pass □ Fail	
Trouble w/ no a/c	⊠N/A □Pass □Fail	
Battery A/H	□N/A ⊠Pass □Fall 55	
Battery Labeled	□N/A ⊠Pass □Fail 4/2018	
Battery Expires	EINA ZIFass EIFail 4/2010	
Location 3	PH2 (TOWER) ELEC. RM	
Number booster tested	BPS 12	
Short NAC Trouble	⊠N/A □Pass □Fail	
Open NAC Trouble	⊠N/A □ Pass □ Fail	
Ground Trouble	⊠N/A □Pass □Fail ⊠N/A □Pass □Fail	
A/C Voltage	⊠N/A □Fass □ Fall ■N/A □Pass □ Fall	
Battery Voltage Battery Load Test	□N/A □Pass □Fail 12.5	
Operate W/ no a/c	⊠N/A ☐Pass ☐Fail	*
Trouble w/ no a/c	⊠N/A □ Pass □ Fail	
Battery A/H	∐N/A ⊠Pass □Fail 7.5	
Battery Laceled	□N/A ☑Pass □Fail	
Battery Expires	□N/A ⊠Pass □Fail 3/2019	
Location 4		
Number booster tested	385 N.A. 857 L. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
Short NAC Trouble	⊠N/A □Pass □Fail	
Open NAC Trouble	⊠N/A □Pass □Fail	
Ground Trouble	⊠N/A □Pass □Fail	
A/C Voltage	⊠N/A □Pass □Fail	
Battery Voltage	⊠N/A □Pass □Fail	
Battery Load Test	□N/A ⊠Pass □Fail	
Operate w/ no a/c	⊠N'A □Pass □Fail	
Trouble w/ no a/c	⊠N/A Pass □Fall □N/A ⊠Pass □Fall	
Battery A/H		
Battery Labeled	□N/A ⊠Pass □Fail	
Baltery Expires	□NA ⊠Pass □Fall	1 (\$10.000) - 12 (\$10.000) - 12 (\$10.000)
Tech Name: DARWIN	Date: 9/6/2016 Review deficiencies with Customer D	₫ Yes



#### DACT PERIODIC TESTING

Job: MILLENNIUM TOWER Address: 301 MISSION ST. SF. CA 94105 Date: 9-6-16 Tech Name: DARWIN

AC Voltage: NA DG V	oltage: NA		
		Load Test, NA	Battery Expiration: NA
Primary Phone Line	September 1990 (September 1997)	Secondary Phone Line	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Manual zone trip SN Correct trip and restoral? (@ CS) SN <90 sec. End-to-End Transmission SN Proper DACT zone trip SN Primary phone disconnected SN Local trouble signal (within 4 min)? SN Primary Line Trouble (within 4 min)? SN Reconnect primary, and SN RJ31X Jack Proper Line Selzure?	MADPOF MOPOF MOPOF MOPOF	Manual zone trip  Correct trip and restoral? (@ CS)  <90 sec. End-to-End Transmission  Proper DACT, zone trip  Primary phone disconnected  Local trouble signal (within 4 min)?  Primary Line Trouble (within 4 min)?  Reconnect primary, and  RJ31X Jack Proper Line Seizure?	⊠nva □p

4384 Enterprise Place, Fremont, CA 94538 Phone: 510-438-1300 / Fax 510-438-1350

REMOTE DISPLAY	COMMENTS:
Visual Display AC Power LED – ON Alarm Silence – LED Program Fault – LED Alarm – LED Alarm/Trouble Acknowledge Alarm Silence Resend Reset/Lamp Test	N/A Pass Fail N/A Pass Fail N/A Pass Fail N/A Pass Fail N/A Pass Fail N/A Pass Fail N/A Pass Fail N/A Pass Fail N/A Pass Fail N/A Pass Fail
Panel Sounder	⊠N/A □Pass □Fail
REMOTE ANNUNCIATOR	
Power On Lamp Trouble Buzzer Signal Silence Lamp Lamp Test Reset (Remote) Alarm Lamp Operation Qty Alarm Lamp Labeled Signal Silence	N/A Pass Fail N/A Pass Fail N/A Pass Fail N/A Pass Fail N/A Pass Fail N/A Pass Fail N/A Pass Fail N/A Pass Fail N/A Pass Fail
NOTIFICATION APPLIANCES	COMMENTS:
NAC's Tested	⊠nvá. □yes u_no
Synchronization Verified	⊠N/A □Pass □Fail
FINAL SYSTEM SUMMARY	ÇÖMMENTS;
Note all Deficiencies Reconnect All Aux Functions Reconnect Signal Circuits Place System Online Appropriate field devices have been tested for proper out puts and recorded on Device Data Sheets	□N/A ⊠Yes □No SEE DEFICIENCY PAGE □N/A ⊠Yes □No □N/A ⊠Yes □No □N/A ⊠Yes □No
Program Disk is on Site	□N/A ⊠Yes □No
Work Complete/Building Manag Central Station Notified:	iement Notified: 'Time: 3:00 PM Time: 3:00 PM / Operator #: RICK
THIS TESTING WAS PERFORME	D IN ACCORDANCE WITH APPLICABLE NEPA 2010 EDITION STANDARDS.
Inspection Completed by/Tech I	Name): DARWIN ALVAREZ Date: 9-6-16.



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Job Name	Site Address Work Ord	er Page
MILLENNIUM TOWER	301 MISSION ST. SF, CA 94105 3219865	1011

Ranking Explanation
(1) Critical Life Safety System Issue (2) Life Safety Functional Issue (3) Unlested (4) Non-Required Recommendation

Scope of work explanation (A) Coordinate w/Red Hawk (B) Facilities to coordinate w/additional vendor

Rank: 2	Scope: A Device Type: NODE BATTERIES Add/Zone: NA	
Make/Model: BAT1	2V-55 (2 EACH) [-Loc./Desc,: SEE BELOW	
Deficiency Desc.	EXPIRED BATTERIES: -10 ^{TA} FLR (MID RISE) ELEC RM NODE 5 -49 ^{TA} FLR (TOWER) ELEC RM NODE 10	
Recommendation	BATTERIES REPLACED DURING INSPECTION ON 9/916	Engineer (

Rank: 2	Scope: A Device Type: BOOSTER Add/Zone: NA BATTERIES
Make/Model: BA	\T12V-7 5 (2 EACH)   Loc/Desc: B1 ELEC. RM (BPS 8)
Deficiency Desc	BATTERIES FAILED LOAD TEST
Recommendatio	n BATTERIES REPLACED DURING INSPECTION ON 3/9/16

Rank: Please Select	t Scope: Please Select   Device Type: Add/Zone:	
Make/Model:	Loc./Desc.	
Deficiency Desc.	NA	
		to a second
Recommendation	NA .	4 200 000 000 000

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١		Scope: Please Select   Device Type;   Add/Zone:
	Make/Model:	Lioc./Desc.
1000	Deficiency Desc.:	
	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	
	Dagamanahania	14
-:1	La company of the second control of the second control of the	



Date: 9/6/2016

Review deficiencies with Customer X Yes

### RED HAWK

Fire Alarm System Points List

Name: MILLENNIUM TOWER

Address: 301 MISSION ST State: CA Zip:

Notes:	TECH: DA DATE: 9	/6/16	7 .a. 329				126/159
Address	Message	Device	Test	T	Visuaí	Ammun	Remarks
Paga การกรุณและเหตุน และ ก	paratis a secondario a 100	Part of the second	35.17			22.3	The Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the
m ²⁵ .			14.14	urie.			TESTED: 9/9/16 TURNS: < 2.5
							MULTIPLE VALVES W/ SAME
01020144	BI LVL MAIN FIRE SVC SHUTOFF VALVE TAMPER	. 77	X	<u> </u>	X	X	ACCRESS
01020152	B1 LEVEL FIRE PUMP RM PUMP 81-1 TROUBLE	CT	Х	1		X	TESTED: 9/7/16
01020155	B1 LEVEL FIRE PUMP RM PUMP B1-2 TROUBLE	CT	X	2° .		X	TESTED: 9/7/16
i, gankiji i					\$ p)		TESTED::9/7/16 TURNS: < 2.5 MULTIPLE VALVES W/SAME
01020158	B1 LEVEL FIRE PUMP RM VALVE TAMPERS	Vī	х		х	X	ADDRESS
01020187	B1 LEVEL STAIR I RISER VALVE TAMPER	VT	X	san Gesta J	X	x	TESTED: 9/9/16 TURNS: < 2.5
01020188	B1 LEVEL STAIR 2 RISER VALVE TAMPER	Ϋ́Ι	×		$\hat{\mathbf{x}}$	X	TESTED: 9/9/16 TURNS: < 2.5
01020189	B1 LEVEL FIRE PUMP RM VALVE TAMPER	٧r	X	131.7	X	$\hat{\mathbf{x}}$	TESTED: 9/7/16 TURNS: < 2.5
01030126	L LEVEL STAIR 1 WATERFLOW	WF	X		Х	X	TESTED: 9/7/16 TIME: < 90 SEC
01030127	L LEVEL STAIR 1 VALVE TAMPER	Vī	X		X	municipa.	TESTED: 9/7/16 TURNS: < 2.5
01030128	CL LEVEL STAIR 1 WATERFLOW	WE	X	grane.	X	X	TESTED: 9/7/16 TIME: < 90 SEC
01030129	CL LEVEL STAIR 1 VALVE TAMPER	Vī	X		X	X	TESTED: 9/7/16 TURNS: < 2.5
01030130	3FL STAIR 1 WATERFLOW	WF	$\hat{\mathbf{x}}$		x	X	TESTED: 9/7/16 TIME: < 90 SEC
01030131	3FL STAIR I VALVE TAMPER	VT	X		X		TESTED: 9/7/16 TURNS: < 2.5
01030132	4FL STAIR 1 WATERFLOW	WF	X	182	Х		TESTED: 9/7/16 TIME: < 90 SEC
01030133	4FL STAIR 1 VALVE TAMPER	V3	X		X		TESTED: 9/7/16 TURNS: < 2.5
01030134	5FL STAIR 1 WATERFLOW	WF	X	o de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de la compositación de l	X		TESTED: 9/7/16 TIME: < 90 SEC
01030135	5FL STAIR 1 VALVE TAMPER	ντ	$\hat{\mathbf{x}}$		x	X	TESTED: 9/7/16 TURNS: < 2.5
01030136	6FL STAIR 1 WATERFLOW	WE	$\mathbf{x}$		Χ	1.7.7.7	TESTED: 9/7/16 TIME: < 90 SEC
01030137	6FL STAIR 1 VALVE TAMPER	Vī	X		X		TESTED: 9,7/16 TURNS: < 2.5
01030138	7FL STAIR 1 WATERFLOW	WF	X	2,01	х		TESTED: 9/7/16 TIME: < 90 SEC
01030139	7FL STAIR I VALVE TAMPER	VT.	$\hat{\mathbf{x}}$		X		TESTED: 9/7/16 TURNS: < 2.5
	8FL STAIR 1 WATERFLOW	WE	Х	A STORES OF LAND AND ADDRESS OF LAND AND ADDRESS OF LAND AND ADDRESS OF LAND A	Х		TESTED: 9/6/16 TIME: < 90 SEC
Complete Company of the State	8FL STAIR 1 VALVE TAMPER	VI	X	30 mg (1)	X	X	TESTED: 9/7/16 TURNS: < 2.5
7.0	9FL STAIR 1 WATERFLOW	WP	X	Accepted to	X		TESTED: 9/6/16 TIME: < 90 SEC
	9FL STAIR 1 VALVE TAMPER	VΤ	x	ig Course	त्री	Х	TESTED: 9/7/16 TURNS: < 2.5
01030144	10FLSTAIR 1 WATERFLOW	WE	X		X		TESTED: 9/6/16 TIME: < 90 SEC
01030145	10FL STAIR 1 VALVE TAMPER	VT	X	New Y	Х		TESTED: 9/7/16 TURNS: < 2.5
01030146	11FLSTAIR 1 WATERFLOW	WE	х		Х		TESTED: 9/7/16 TIME: < 90 SEC
01030147	11FL STAIR I VALVE TAMPER	-√π	х	7	Х		TESTED: 9/7/16.TURNS: < 2.5
01030148	12FL STAIR 1 WATERFLOW	WE	$\mathbf{x}$		x		TESTED: 9/7/16:TIME: < 90 SEC:
01030149	12FL STAIR 1 VALVE TAMPER	VT .	X	.1 20.7.1	X		TESTED: 9/7/16 TURNS: < 2.5
01030150	14FL STAIR 1 WATERFLOW	WF	X		Х		TESTED: 9/6/16 TIME: < 90 SEC
01030151	14FL STAIR 1 VALVE TAMPER	VT	X	2.04	X		TESTED: 9/7/16 TURNS: < 2.5
01030152	15FL STAIR 1 WATERFLOW	WE	$\mathbf{x}$		Х	Х	TESTED: 9/6/16 TIME: < 90 SEC
01030153	15FL STAIR 1 VALVE TAMPER	УТ *	X		X	Х	TESTED: 9/7/16 TURNS: < 2.5
01030154	16FL STAIR I WATERFLOW	WF	X	1.00	Х		TESTED: 9/7/18 TIME: < 90 SEC
01030155	16FL STAIR I VALVE TAMPER	٧ī	×		X	х	TESTED: 9/7/16 TURNS: < 2.5
01030156	17FL STAIR 1 WATERFLOW	WE	X		Х		TESTED: 9/7/16 TIME: < 90 SEC
And the second second second second	17FL STAIR 1 WALVE TAMPER	VΤ	Х	555	X.		TESTED: 9/7/16 TURNS: < 2.5
	18FL STAIR 1 WATERFLOW	WF	X	7.7	Х	Х	TESTED: 9/6/16 TIME: < 90 SEC-
	18FL STAIR 1 VALVE TAMPER	VT	Хİ	200	X	X	TESTED: 9/7/16 TURNS: < 2.5
01030160	19FL STAIR 1 WATERFLOW	WE	x		X	Х	TESTED: 9/6/16 TIME: < 90 SEC
01030161	19FL STAIR 1 VALVE TAMPER	VT	X		X	Х	TESTED: 9/7/16 TURNS: < 2.5
01030162	20FL STAIR 1 WATERFLOW	WF	х	Der l	Х		TESTED: 9/6/16 TIME: < 90 SEC

01030163	20FL STAIR 1 VALVE TAMPER	VT	X		X	X	TESTED: 9/7/16 TURNS: < 2.5
01030164	21FL STAIR 1 WATERFLOW	WF	X		Χ	X	TESTED: 9/6/16 TIME: < 90 SEC
01030165	21FL STAIR 1 VALVE TAMPER	VT	X		Х	X	TESTED: 9/7/16 TURNS: < 2.5
	22FL STAIR 1 WATERFLOW	WF	X		Х	X	TESTED: 9/6/16 TIME: < 90 SEC
	22FL STAIR 1 VALVE TAMPER	VT	X		X		TESTED: 9/7/16 TURNS: < 2.5
	23FL STAIR 1 WATERFLOW	WF	X		X		TESTED: 9/6/16 TIME: < 90 SEC
	23FL STAIR 1 VALVE TAMPER	VT	X	_	X		TESTED: 9/7/16 TURNS: < 2.5
	24FL STAIR 1 WATERFLOW	WF	$\frac{\hat{x}}{x}$		X		TESTED: 9/6/16 TIME: < 90 SEC
	24FL STAIR 1 VALVE TAMPER	VT	Î	$\dashv$	X		TESTED: 9/7/16 TURNS: < 2.5
01030172	25FL STAIR 1 WATERFLOW	WF	X	-+	$\frac{\hat{x}}{x}$		TESTED: 9/7/16 TIME: < 90 SEC
	25FL STAIR 1 VALVE TAMPER	VT	Î	-+	$\hat{\mathbf{x}}$		TESTED: 9/7/16 TURNS: < 2.5
	26FL STAIR 1 WATERFLOW	WF	Î	<del>- 1</del>	χ	_	TESTED: 9/6/16 TIME: < 90 SEC
	26FL STAIR 1 VALVE TAMPER	VT	<del>  x  </del>		$\hat{\mathbf{x}}$		TESTED: 9/7/16 TURNS: < 2.5
	27FL STAIR 1 WATERFLOW	WF	ΙX	-	$\hat{\mathbf{x}}$		TESTED: 9/6/16 TIME: < 90 SEC
01030177	27FL STAIR 1 VALVE TAMPER	VT	<del>  x  </del>		$\hat{\mathbf{x}}$		TESTED: 9/7/16 TURNS; < 2.5
01030178	28FL STAIR 1 WATERFLOW	WF	Î	-+	$\hat{\mathbf{x}}$		TESTED: 9/6/16 TIME: < 90 SEC
	28FL STAIR 1 VALVE TAMPER	VT	x		ŵ		TESTED: 9/7/16 TURNS: < 2.5
01030179	29FL STAIR 1 WATERFLOW	WF	x		ŵ		TESTED: 9/6/16 TIME: < 90 SEC
		VT	-		ŵ		TESTED: 9/7/16 TURNS: < 2.5
01030181	29FL STAIR 1 VALVE TAMPER	WF	X			_	
01030182	30FL STAIR 1 WATERFLOW		Ϋ́		Ϋ́		TESTED: 9/6/16 TIME: < 90 SEC
01030183	30FL STAIR 1 VALVE TAMPER .	VT	X		쉯		TESTED: 9/7/16 TURNS: < 2.5
01030184	31FL STAIR 1 WATERFLOW	WF	X		Ÿ		TESTED: 9/6/16 TIME: < 90 SEC
01030185	31FL STAIR 1 VALVE TAMPER	VT	X		X.		TESTED: 9/7/16 TURNS: < 2.5
01030186	32FL STAIR 1 WATERFLOW	WF	X		<u>X</u>		TESTED: 9/6/16 TIME: < 90 SEC
01030187	32FL STAIR 1 VALVE TAMPER	VT	X		Х		TESTED: 9/7/16 TURNS: < 2.5
	33FL STAIR 1 WATERFLOW	WF	X		X		TESTED: 9/6/16 TIME: < 90 SEC
01030189	33FL STAIR 1 VALVE TAMPER	VT	X		X		TESTED: 9/7/16 TURNS: < 2.5
	34FL STAIR 1 WATERFLOW	WF	X		X		TESTED: 9/6/16 TIME: < 90 SEC
01030191	34FL STAIR 1 VALVE TAMPER	VT	X		X		TESTED: 9/7/16 TURNS: < 2.5
01030192	35FL STAIR 1 WATERFLOW	WF	X		X	Х	TESTED: 9/6/16 TIME: < 90 SEC
01030193	35FL STAIR 1 VALVE TAMPER	VT	Х		Х	Х	TESTED: 9/7/16 TURNS: < 2.5
01030194	36FL STAIR 1 WATERFLOW	WF	X		X	Х	TESTED: 9/6/16 TIME: < 90 SEC
01030195	36FL STAIR 1 VALVE TAMPER	VĪ	Х		X	Х	TESTED: 9/7/16 TURNS: < 2.5
01030196	37FL STAIR 1 WATERFLOW	WF	X		X	Х	TESTED: 9/6/16 TIME: < 90 SEC
01030197	37FL STAIR 1 VALVE TAMPER	VT	X		X	Х	TESTED: 9/7/16 TURNS: < 2.5
01030198	38FL STAIR 1 WATERFLOW	WF	X		X	Х	TESTED: 9/6/16 TIME: < 90 SEC
01030199	38FL STAIR 1 VALVE TAMPER	VT	X		X	Х	TESTED: 9/7/16 TURNS: < 2.5
01030200	39FL STAIR 1 WATERFLOW	WF	X		X	Х	TESTED: 9/6/16 TIME: < 90 SEC
01030201	39FL STAIR 1 VALVE TAMPER	VT	X		X	Х	TESTED: 9/7/16 TURNS: < 2.5
01030202	40FL STAIR 1 WATERFLOW	WF	Х		X	Х	TESTED: 9/6/16 TIME: < 90 SEC
01030203	40FL STAIR 1 VALVE TAMPER	VT	X		X	Х	TESTED: 9/7/16 TURNS: < 2.5
01030204	41FL STAIR 1 WATERFLOW	WF	Х		X	Х	TESTED: 9/6/16 TIME: < 90 SEC
01030205	41FL STAIR 1 VALVE TAMPER	VT	X	7	X	Х	TESTED: 9/7/16 TURNS: < 2.5
01030206	42FL STAIR 1 WATERFLOW	WF	Х		X	X	TESTED: 9/6/16 TIME: < 90 SEC
	42FL STAIR 1 VALVE TAMPER	VT	х	$\neg$	х	Х	TESTED: 9/7/16 TURNS: < 2.5
	43FL STAIR 1 WATERFLOW	WF	X	$\neg$	$\overline{\mathbf{x}}$		TESTED: 9/7/16 TIME: < 90 SEC
	43FL STAIR 1 VALVE TAMPER	VT	X		хl		TESTED: 9/7/16 TURNS: < 2.5
	45FL STAIR 1 WATERFLOW	WF	X		X		TESTED: 9/7/16 TIME: < 90 SEC
	45FL STAIR 1 VALVE TAMPER	VT	X				TESTED: 9/7/16 TURNS: < 2.5
	46FL STAIR 1 WATERFLOW	WF	X		χÌ		TESTED: 9/6/16 TIME: < 90 SEC
	46FL STAIR 1 VALVE TAMPER	VT	X		쉾		TESTED: 9/7/16 TURNS: < 2.5
	47FL STAIR 1 WATERFLOW	WF	<del>X</del>		χÌ		TESTED: 9/6/16 TIME: < 90 SEC
	47FL STAIR 1 VALVE TAMPER	VT	Ŷ		χÌ		TESTED: 9/7/16 TURNS: < 2.5
	48FL STAIR 1 WATERFLOW	WF	<del>x</del>		۲Ì		TESTED: 9/6/16 TIME: < 90 SEC
	48FL STAIR 1 WATERFLOW  48FL STAIR 1 VALVE TAMPER	VT	<del>\frac{2}{X}</del>		슀		TESTED: 9/7/16 TURNS: < 2.5
01030217							TESTED: 9/6/16 TIME: < 90 SEC
01030218	49FL STAIR 1 WATERFLOW	WF	Ϋ́		Ϋ́	÷	TECTED: 0/7/46 TUDNO: - 0.5
01030219	49FL STAIR 1 VALVE TAMPER	VT	X		Ϋ́		TESTED: 9/7/16 TURNS: < 2.5
	50FL STAIR 1 WATERFLOW	WF	X		쑀		TESTED: 9/7/16 TIME: < 90 SEC
	50FL STAIR 1 VALVE TAMPER	VT	X		<del></del>		TESTED: 9/7/16 TURNS: < 2.5
	51FL STAIR 1 WATERFLOW	WF	Х		Хļ		TESTED: 9/6/16 TIME: < 90 SEC
	51FL STAIR 1 VALVE TAMPER	VT	X	-	ΧĮ		TESTED: 9/7/16 TURNS: < 2.5
	52FL STAIR 1 WATERFLOW	WF	X		Χļ		TESTED: 9/6/16 TIME: < 90 SEC
01030225	52FL STAIR 1 VALVE TAMPER	VT	X		X	X	TESTED: 9/7/16 TURNS: < 2.5

	53FL STAIR 1 WATERFLOW	WF	X	<u> </u>	X		TESTED: 9/7/16 TIME: < 90 SEC	
	53FL STAIR 1 VALVE TAMPER	VT	X		X		TESTED: 9/7/16 TURNS: < 2.5	
01030228	54FL STAIR 1 WATERFLOW	WF	X	<u> </u>	l X		TESTED: 9/6/16 TIME: < 90 SEC	
	54FL STAIR 1 VALVE TAMPER	VT	Ϋ́	<del> </del>	Ϋ́		TESTED: 9/7/16 TURNS: < 2.5	
01030230	55FL STAIR 1 WATERFLOW 55FL STAIR 1 VALVE TAMPER	WF VT	₩		X		TESTED: 9/7/16 TIME: < 90 SEC TESTED: 9/7/16 TURNS: < 2.5	
01030231	56FL STAIR 1 WATERFLOW	WF	X	┢	Ŷ		TESTED: 9/6/16 TIME: < 90 SEC	
01030232	56FL STAIR 1 VALVE TAMPER	VT	<del>  x</del>	├	x		TESTED: 9/7/16 TURNS: < 2.5	
	57FL STAIR 1 WATERFLOW	WF	Î	┤	X		TESTED: 9/7/16 TIME: < 90 SEC	
01030235	57FL STAIR 1 VALVE TAMPER	VT	X		X		TESTED: 9/7/16 TURNS: < 2.5	
	PH1 STAIR 1 WATERFLOW	WF	X	<u> </u>	Х		TESTED: 9/6/16 TIME: < 90 SEC	
01030237	PH1 STAIR 1 VALVE TAMPER	VT	X	<b></b>	Х	Х	TESTED: 9/7/16 TURNS: < 2.5	
01030238	PH2 STAIR 1 WATERFLOW	WF	Х		Х	Х	TESTED: 9/7/16 TIME: < 90 SEC	
01030239	PH2 STAIR 1 VALVE TAMPER	VT	Х		Х	Х	TESTED: 9/7/16 TURNS: < 2.5	
	GPH LEVEL STAIR 1 WATERFLOW	WF	X		X	Х	TESTED: 9/7/16 TIME: < 90 SEC	
	GPH LEVEL STAIR 1 VALVE TAMPER	VT	X		Х		TESTED: 9/7/16 TURNS: < 2.5	
	59FL STAIR 1 WATERFLOW	WF	X	<u> </u>	X		TESTED: 9/7/16 TIME: < 90 SEC	
	59FL STAIR 1 VALVE TAMPER	VT	1X	<u> </u>	X		TESTED: 9/7/16 TURNS: < 2.5	
	26FL STAIR 1 VALVE TAMPER	VT	X		Х		TESTED: 9/7/16 TURNS: < 2.5	
	B1 LEVEL STAIR 1 WATERFLOW	WF	ΙX		Ϋ́	_	TESTED: 9/7/16 TIME: < 90 SEC	
	B1 LEVEL STAIR 1 VALVE TAMPER	VT	X				TESTED: 9/7/16 TURNS: < 2.5	
	CL LEVEL STAIR 2 WATERFLOW	WF	X	L	X		TESTED: 9/7/16 TIME: < 90 SEC	
	CL LEVEL STAIR 2 VALVE TAMPER	VT	X		Ŷ		TESTED: 9/7/16 TURNS: < 2.5	
	3FL STAIR 2 WATERFLOW 3FL STAIR 2 VALVE TAMPER	WF	X	ļ	Ϋ́		TESTED: 9/7/16 TIME: < 90 SEC	
	4FL STAIR 2 WATERFLOW	VT WF	X		X		TESTED: 9/7/16 TURNS: < 2.5 TESTED: 9/7/16 TIME: < 90 SEC	
	4FL STAIR 2 VALVE TAMPER	VT	Î	-	Ŷ		TESTED: 9/7/16 TURNS: < 2.5	
	5FL STAIR 2 WATERFLOW	WF	x		Ŷ		TESTED: 9/7/16 TIME: < 90 SEC	
	5FL STAIR 2 VALVE TAMPER	VT	x	$\vdash$	X		TESTED: 9/7/16 TURNS: < 2.5	
	6FL STAIR 2 WATERFLOW	WF	X		X		TESTED: 9/7/16 TIME: < 90 SEC	
	6FL STAIR 2 VALVE TAMPER	Vī	X		X		TESTED: 9/7/16 TURNS: < 2.5	
	7FL STAIR 2 WATERFLOW	WF	Х		Х		TESTED: 9/7/16 TIME: < 90 SEC	
01030387	7FL STAIR 2 VALVE TAMPER	VT	Х		Х	X	TESTED: 9/7/16 TURNS: < 2.5	
01030388	8FL STAIR 2 WATERFLOW	WF	X		Х	X	TESTED: 9/6/16 TIME: < 90 SEC	
01030389	8FL STAIR 2 VALVE TAMPER	VT	Х		Х	Х	TESTED: 9/6/16 TURNS: < 2.5	
01030390	9FL STAIR 2 WATERFLOW	WF	Х		Х	Х	TESTED: 9/6/16 TIME: < 90 SEC	
	9FL STAIR 2 VALVE TAMPER	VT	X				TESTED: 9/6/16 TURNS: < 2.5	
	10FL STAIR 2 WATERFLOW	WF	X		X		TESTED: 9/6/16 TIME: < 90 SEC	
	10FL STAIR 2 VALVE TAMPER	VT	X		X		TESTED: 9/6/16 TURNS: < 2.5	
	11FL STAIR 2 WATERFLOW	WF	X	Ļ	X		TESTED: 9/6/16 TIME: < 90 SEC	
	11FL STAIR 2 VALVE TAMPER	VT	X	<u> </u>	Ÿ		TESTED: 9/6/16 TURNS: < 2.5	
	12FL STAIR 2 WATERFLOW	WF	Ϋ́	$\vdash$	Ϋ́		TESTED: 9/6/16 TIME: < 90 SEC	
	12FL STAIR 2 VALVE TAMPER	VT WF	X				TESTED: 9/6/16 TURNS: < 2.5	
	14FL STAIR 2 WATERFLOW 14FL STAIR 2 VALVE TAMPER	VT	X	$\vdash$			TESTED: 9/6/16 TIME: < 90 SEC TESTED: 9/6/16 TURNS: < 2.5	
	15FL STAIR 2 WATERFLOW	WF	X		÷		TESTED: 9/6/16 TURNS: < 2.5 TESTED: 9/6/16 TIME: < 90 SEC	
	15FL STAIR 2 WATERFLOW 15FL STAIR 2 VALVE TAMPER	VVF	Ŷ		â		TESTED: 9/6/16 TURNS: < 2.5	
	16FL STAIR 2 WATERFLOW	WF	x	$\vdash$	x		TESTED: 9/6/16 TIME: < 90 SEC	
	16FL STAIR 2 VALVE TAMPER	VT	Ŷ	$\vdash$			TESTED: 9/6/16 TURNS: < 2.5	
	17FL STAIR 2 WATERFLOW	WF	Ŷ	-	$\hat{\mathbf{x}}$		TESTED: 9/6/16 TIME: < 90 SEC	
	17FL STAIR 2 VALVE TAMPER	VT	X		χÌ		TESTED: 9/6/16 TURNS: < 2.5	
	18FL STAIR 2 WATERFLOW	WF	X		$\hat{\mathbf{x}}$		TESTED: 9/6/16 TIME: < 90 SEC	
	18FL STAIR 2 VALVE TAMPER	VT	Х		X		TESTED: 9/6/16 TURNS: < 2.5	
	19FL STAIR 2 WATERFLOW	WF	Х		X	Х	TESTED: 9/6/16 TIME: < 90 SEC	
01030409	19FL STAIR 2 VALVE TAMPER	VT	Х		X	Х	TESTED: 9/6/16 TURNS: < 2.5	
	20FL STAIR 2 WATERFLOW	WF	Х		X	Χ	TESTED: 9/6/16 TIME: < 90 SEC	
	20FL STAIR 2 VALVE TAMPER	VT	Х				TESTED: 9/6/16 TURNS: < 2.5	
	21FL STAIR 2 WATERFLOW	WF	Х	]	X		TESTED: 9/6/16 TIME: < 90 SEC	
	21FL STAIR 2 VALVE TAMPER	VT	X				TESTED: 9/6/16 TURNS: < 2.5	
	22FL STAIR 2 WATERFLOW	WF	X				TESTED: 9/6/16 TIME: < 90 SEC	
	22FL STAIR 2 VALVE TAMPER	VT	<del>  X</del>				TESTED: 9/6/16 TURNS: < 2.5	
	23FL STAIR 2 WATERFLOW	WF	Ϋ́		Ÿ		TESTED: 9/6/16 TIME: < 90 SEC TESTED: 9/6/16 TURNS: < 2.5	
. 03030077	23FL STAIR 2 VALVE TAMPER	VT	X	- 1	ΧI	ΧΙ	1E01ED: 9/0/16 TUKNS: < 2.5	

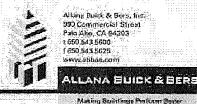
04020442	TOUR OTAUR OMATERELOW	1 NOTE	1 7/	·	I V		TECTED, DIGHE TIME, 400 CEO
	24FL STAIR 2 WATERFLOW	WF	X.		X		TESTED: 9/6/16 TIME: < 90 SEC
	24FL STAIR 2 VALVE TAMPER	VT	X	ļ	X	X	
	25FL STAIR 2 WATERFLOW	WF	X		X		TESTED: 9/6/16 TIME: < 90 SEC
01030421	25FL STAIR 2 VALVE TAMPER	VT	X		X		TESTED: 9/6/16 TURNS: < 2.5
01030422	26FL STAIR 2 WATERFLOW	WF	X		Х	X	
01030423	26FL STAIR 2 VALVE TAMPER	VT	X		Х	Х	TESTED: 9/6/16 TURNS: < 2.5
01030424	27FL STAIR 2 WATERFLOW	WF	Х		Х	Х	TESTED: 9/6/16 TIME: < 90 SEC
01030425	27FL STAIR 2 VALVE TAMPER	VT	X		Х	Х	TESTED: 9/6/16 TURNS: < 2.5
01030426	28FL STAIR 2 WATERFLOW	WF	X		Х	X	TESTED: 9/6/16 TIME: < 90 SEC
01030427	28FL STAIR 2 VALVE TAMPER	VT	Х		Х	X	TESTED: 9/6/16 TURNS: < 2.5
01030428	29FL STAIR 2 WATERFLOW	WF	X		X	Х	TESTED: 9/6/16 TIME: < 90 SEC
01030429	29FL STAIR 2 VALVE TAMPER	VT	X		X		TESTED: 9/6/16 TURNS: < 2.5
01030430	30FL STAIR 2 WATERFLOW	WF	X		X		TESTED: 9/6/16 TIME: < 90 SEC
01030431	30FL STAIR 2 VALVE TAMPER	VT	X		X		TESTED: 9/6/16 TURNS: < 2.5
	31FL STAIR 2 WATERFLOW	WF	Î	_	x		TESTED: 9/6/16 TIME: < 90 SEC
01030432	31FL STAIR 2 VALVE TAMPER	VT	x		Ŷ		TESTED: 9/6/16 TURNS: < 2.5
01030433		WF	Î		Ŷ		TESTED: 9/6/16 TIME: < 90 SEC
	32FL STAIR 2 WATERFLOW			_		_	
01030435	32FL STAIR 2 VALVE TAMPER	VT	X		X		TESTED: 9/6/16 TURNS: < 2.5
	33FL STAIR 2 WATERFLOW	WF	X		X		TESTED: 9/6/16 TIME: < 90 SEC
01030437	33FL STAIR 2 VALVE TAMPER	VT	Х		X		TESTED: 9/6/16 TURNS: < 2.5
01030438	34FL STAIR 2 WATERFLOW	WF	X		Х		TESTED: 9/6/16 TIME: < 90 SEC
01030439	34FL STAIR 2 VALVE TAMPER	VT	X		Х		TESTED: 9/6/16 TURNS: < 2.5
01030440	35FL STAIR 2 WATERFLOW	WF	Х		Χ	Х	TESTED: 9/6/16 TIME: < 90 SEC
01030441	35FL STAIR 2 VALVE TAMPER	VT	X		Х	Х	TESTED: 9/6/16 TURNS: < 2.5
01030442	36FL STAIR 2 WATERFLOW	WF	Х		Х	Х	TESTED: 9/6/16 TIME: < 90 SEC
01030443	36FL STAIR 2 VALVE TAMPER	VT	Х		Х	Х	TESTED: 9/6/16 TURNS: < 2.5
01030444	37FL STAIR 2 WATERFLOW	WF	X		Х	Х	TESTED: 9/6/16 TIME: < 90 SEC
01030445	37FL STAIR 2 VALVE TAMPER	VT	Х		Х	Х	TESTED: 9/6/16 TURNS: < 2.5
	38FL STAIR 2 WATERFLOW	WF	Х		х	Х	TESTED: 9/6/16 TIME: < 90 SEC
<del></del>	38FL STAIR 2 VALVE TAMPER	VT	X		Х		TESTED: 9/6/16 TURNS: < 2.5
	39FL STAIR 2 WATERFLOW	WF	X	_	x		TESTED: 9/6/16 TIME: < 90 SEC
	39FL STAIR 2 VALVE TAMPER	VT	x		$\hat{\mathbf{x}}$		TESTED: 9/6/16 TURNS: < 2.5
	40FL STAIR 2 WATERFLOW	WF	x		x		TESTED: 9/6/16 TIME: < 90 SEC
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	40FL STAIR 2 VALVE TAMPER						
	41FL STAIR 2 WATERFLOW	WF	X		X		TESTED: 9/6/16 TIME: < 90 SEC
	41FL STAIR 2 VALVE TAMPER	VT	X	-	X		TESTED: 9/6/16 TURNS: < 2.5
	42FL STAIR 2 WATERFLOW	WF	Х		Х	~~~~	TESTED: 9/6/16 TIME: < 90 SEC
	42FL STAIR 2 VALVE TAMPER	VT	X		X		TESTED: 9/6/16 TURNS: < 2.5
01030456	43FL STAIR 2 WATERFLOW	WF	Х		Х		TESTED: 9/6/16 TIME: < 90 SEC
01030457	43FL STAIR 2 VALVE TAMPER	VT	X		X	Х	TESTED: 9/6/16 TURNS: < 2.5
01030458	45FL STAIR 2 WATERFLOW	WF	Х		Х	Х	TESTED: 9/6/16 TIME: < 90 SEC
01030459	45FL STAIR 2 VALVE TAMPER	VT	Х		Х	Х	TESTED: 9/6/16 TURNS: < 2.5
01030460	46FL STAIR 2 WATERFLOW	WF	Х		X	Х	TESTED: 9/6/16 TIME: < 90 SEC
01030461	46FL STAIR 2 VALVE TAMPER	VT	х		х	х	TESTED: 9/6/16 TURNS: < 2.5
	47FL STAIR 2 WATERFLOW	WF	х		x	X	TESTED: 9/6/16 TIME: < 90 SEC
	47FL STAIR 2 VALVE TAMPER	VT	х		X	X	TESTED: 9/6/16 TURNS: < 2.5
	48FL STAIR 2 WATERFLOW	WF	X		$\hat{\mathbf{x}}$	X	TESTED: 9/7/16 TIME: < 90 SEC
	48FL STAIR 2 VALVE TAMPER	VT	$\frac{\hat{x}}{x}$		$\hat{\mathbf{x}}$		TESTED: 9/6/16 TURNS: < 2.5
	49FL STAIR 2 WATERFLOW	WF	x	$\dashv$	$\hat{\mathbf{x}}$		TESTED: 9/6/16 TIME: < 90 SEC
	49FL STAIR 2 VALVE TAMPER	<del></del>	177		7.		TESTED: 9/6/16 TURNS: < 2.5
		VI	$\frac{x}{x}$		<del>ᢤ</del>		
	50FL STAIR 2 WATERFLOW	WF	-		<del>X</del>		TESTED: 9/6/16 TIME: < 90 SEC
	50FL STAIR 2 VALVE TAMPER	VT	X		X		TESTED: 9/6/16 TURNS: < 2.5
	51FL STAIR 2 WATERFLOW	WF	X		X		TESTED: 9/6/16 TIME: < 90 SEC
	51FL STAIR 2 VALVE TAMPER	VT	Х		X		TESTED: 9/6/16 TURNS: < 2.5
	52FL STAIR 2 WATERFLOW	WF	Х		×		TESTED: 9/6/16 TIME: < 90 SEC
	52FL STAIR 2 VALVE TAMPER	VT	Х		X		TESTED: 9/6/16 TURNS: < 2.5
	53FL STAIR 2 WATERFLOW	WF	X	I	X		TESTED: 9/6/16 TIME: < 90 SEC
01030475	53FL STAIR 2 VALVE TAMPER	VT	Х	T	Х	Х	TESTED: 9/6/16 TURNS: < 2.5
01030476	54FL STAIR 2 WATERFLOW	WF	Х		Х	Х	TESTED: 9/6/16 TIME: < 90 SEC
01030477	54FL STAIR 2 VALVE TAMPER	7	Х		X	Х	TESTED: 9/6/16 TURNS: < 2.5
	55FL STAIR 2 WATERFLOW	WF	X		X		TESTED: 9/6/16 TIME: < 90 SEC
	55FL STAIR 2 VALVE TAMPER	VT	X		X	_	TESTED: 9/6/16 TURNS: < 2.5
01030480	56FL STAIR 2 WATERFLOW	WF	$\hat{\mathbf{x}}$		χĺ		TESTED: 9/6/16 TIME: < 90 SEC
0.000		•••			~1	<u> </u>	

	Y					
	56FL STAIR 2 VALVE TAMPER	VT	Х	L X		TESTED: 9/6/16 TURNS: < 2.5
	57FL STAIR 2 WATERFLOW	WF	X	X		TESTED: 9/6/16 TIME: < 90 SEC
	57FL STAIR 2 VALVE TAMPER	VT	Х	X		TESTED: 9/6/16 TURNS: < 2.5
01030484	PH1 STAIR 2 WATERFLOW	WF	X	X	_ X	TESTED: 9/7/16 TIME: < 90 SEC
01030485	PH1 STAIR 2 VALVE TAMPER	VT	X	X	X	TESTED: 9/6/16 TURNS: < 2.5
01030486	PH2 STAIR 2 WATERFLOW	WF	X	X	X	TESTED: 9/6/16 TIME: < 90 SEC
01030487	PH2 STAIR 2 VALVE TAMPER	VT	Х	X	X	TESTED: 9/6/16 TURNS: < 2.5
01030488	GPH LEVEL STAIR 2 WATERFLOW	WF	Х	X	X	TESTED: 9/6/16 TIME: < 90 SEC
01030489	GPH LEVEL STAIR 2 VALVE TAMPER	VT	Х	Х	X	TESTED: 9/6/16 TURNS: < 2.5
01030490	59FL STAIR 2 WATERFLOW	WF	X	X	Τx	TESTED: 9/6/16 TIME: < 90 SEC
	59FL STAIR 2 VALVE TAMPER	VT	X	X		TESTED: 9/6/16 TURNS: < 2.5
	26FL STAIR 2 VALVE TAMPER	Vī	X	X		TESTED: 9/6/16 TURNS: < 2.5
	B1 LVL STAIR 2 WATERFLOW	WF	X	X		TESTED: 9/7/16 TIME: < 90 SEC
	B1 LVL STAIR 2 VALVE TAMPER	VT	X	$\frac{\lambda}{x}$		TESTED: 9/7/16 TURNS: < 2.5
	L LVL STAIR 2 WATERFLOW	WF	X	$+\hat{x}$		TESTED: 9/7/16 TIME: < 90 SEC
	L LVL STAIR 2 VALVE TAMPER	VT	Ŷ	<del>-</del> x		TESTED: 9/7/16 TURNS: < 2.5
		WF				
	60FL STAIR 2 WATERFLOW		X	— <del>  X</del>	~	TESTED: 9/6/16 TIME: < 90 SEC
	60FL STAIR 2 VALVE TAMPER	VT	X	X		TESTED: 9/6/16 TURNS: < 2.5
	MR B5 LVL STAIR 4 WATERFLOW	WF	X	X		TESTED: 9/8/16 TIME: < 90 SEC
	MR B5 LVL STAIR 4 VALVE TAMPER	VT	X	X		TESTED: 9/8/16 TURNS: < 2.5
	MR B4 LVL STAIR 4 WATERFLOW	WF	X	X		TESTED: 9/8/16 TIME: < 90 SEC
	MR B4 LVL STAIR 4 VALVE TAMPER	VT	X	X		TESTED: 9/8/16 TURNS: < 2.5
03020185	MR B5 LVL STAIR 6 WATERFLOW	WF	X	X		TESTED: 9/8/16 TIME: < 90 SEC
3020186	MR B5 LVL STAIR 6 VALVE TAMPER	VT	Х	, X	X	TESTED: 9/8/16 TURNS: < 2.5
3020187	MR B4 LVL STAIR 6 WATERFLOW	WF	Х	Х	X	TESTED: 9/8/16 TIME: < 90 SEC
03020188	MR B4 LVL STAIR 6 VALVE TAMPER	VT	Х	X	X	TESTED: 9/8/16 TURNS: < 2.5
	MR B3 LVL STAIR 6 WATERFLOW	WF	Х	X	Τx	TESTED: 9/8/16 TIME: < 90 SEC
3020190	MR B3 LVL STAIR 6 VALVE TAMPER	VT	х	X	Tx	TESTED: 9/8/16 TURNS: < 2.5
	MR B2 LVL STAIR 6 WATERFLOW	WF	X	T X		TESTED: 9/8/16 TIME: < 90 SEC
	MR B2 LVL STAIR 6 VALVE TAMPER	VT	X	T X		TESTED: 9/8/16 TURNS: < 2.5
	MR B1 LVL STAIR 6 WATERFLOW	WF	x	<del>- l x</del>		TESTED: 9/8/16 TIME: < 90 SEC
	MR B1 LVL STAIR 6 VALVE TAMPER	VT		$+\hat{x}$		TESTED: 9/8/16 TURNS: < 2.5
		WF	X			·
	MR L LVL STAIR 6 WATERFLOW	<del> </del>	X	- X	_	TESTED: 9/8/16 TIME: < 90 SEC
	MR L LVL STAIR 6 VALVE TAMPER	VT	X	<u>X</u>		TESTED: 9/8/16 TURNS: < 2.5
	MR CL LVL STAIR 6 WATERFLOW	WF	Х	X		TESTED: 9/8/16 TIME: < 90 SEC
	MR CL LVL STAIR 6 VALVE TAMPER	VT	Х	X	_	TESTED: 9/8/16 TURNS: < 2.5
	MR 3FL STAIR 6 WATERFLOW	WF	Х	X		TESTED: 9/8/16 TIME: < 90 SEC
3020200	MR 3FL STAIR 6 VALVE TAMPER	VT	Х	X		TESTED: 9/8/16 TURNS: < 2.5
3020201	MR 4FL STAIR 6 WATERFLOW	WF	X	X	X	TESTED: 9/8/16 TIME: < 90 SEC
3020202	MR 4FL STAIR 6 VALVE TAMPER	VT	Х	X	X	TESTED: 9/8/16 TURNS: < 2.5
3020203	MR 5FL STAIR 6 WATERFLOW	WF	Х	X	X	TESTED: 9/8/16 TIME: < 90 SEC
3020204	MR 5FL STAIR 6 VALVE TAMPER	VT	Х	X	ĺχ	TESTED: 9/8/16 TURNS: < 2.5
	MR 6FL STAIR 6 WATERFLOW	WF	Х	X		TESTED: 9/8/16 TIME: < 90 SEC
	MR 6FL STAIR 6 VALVE TAMPER	VT	Х	X		TESTED: 9/8/16 TURNS: < 2.5
	MR 7FL STAIR 6 WATERFLOW	WF	X	X		TESTED: 9/8/16 TIME: < 90 SEC
	MR 7FL STAIR 6 VALVE TAMPER	VT	$\hat{\mathbf{x}}$	X		TESTED: 9/8/16 TURNS: < 2.5
	MR 8FL STAIR 6 WATERFLOW	WF	<del>x</del>	<del>  Î</del>		TESTED: 9/8/16 TIME: < 90 SEC
		VT	$\hat{\mathbf{x}}$	$\frac{\hat{x}}{x}$		TESTED: 9/8/16 TURNS: < 2.5
	MR 8FL STAIR 6 VALVE TAMPER	WF		⊢â		TESTED: 9/8/16 TIME: < 90 SEC
	MR 9FL STAIR 6 WATERFLOW		X			
	MR 9FL STAIR 6 VALVE TAMPER	VT	X			TESTED: 9/8/16 TURNS: < 2.5
	MR 10FL STAIR 6 WATERFLOW	WF	Х	X		TESTED: 9/8/16 TIME: < 90 SEC
3020213					1 🗸	
3020213 3020214	MR 10FL STAIR 6 VALVE TAMPER	Vī	Х		_	TESTED: 9/8/16 TURNS: < 2.5
3020213 3020214			X		_	TESTED: 9/8/16 TIME: < 90 SEC
3020213 3020214 3020215	MR 10FL STAIR 6 VALVE TAMPER	Vī			X	
3020213 3020214 3020215 3020216	MR 10FL STAIR 6 VALVE TAMPER MR PH LVL STAIR 6 WATERFLOW	VT WF	Х	Х	X	TESTED: 9/8/16 TIME: < 90 SEC
03020213 03020214 03020215 03020216 03020217	MR 10FL STAIR 6 VALVE TAMPER MR PH LVL STAIR 6 WATERFLOW MR PH LVL STAIR 6 VALVE TAMPER MR 12FL STAIR 6 WATERFLOW	VT WF VT WF	X X X	X X X	X X X	TESTED: 9/8/16 TIME: < 90 SEC TESTED: 9/8/16 TURNS: < 2.5 TESTED: 9/8/16 TIME: < 90 SEC
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# EXHIBIT

EXHIBIT H



November 15, 2016

John Gill Hughes Gill Cochrane 1600 South Main Street, Suile 215 Walnut Creek, CA 94596

Denis F. Shanagher Duane Morris LLP Spear Tower One Market Plaza, Suite 2200 San Francisco, CA 94105-1127

Re: Site Excavation at Utilities – DRAFT Scope

The Millennium Tower 301 Mission St. San Francisco, CA 94105

JN: 16-4094.01

Dear Mr. Gill and Mr. Shanagher,

In accordance with your request, Allana Buick & Bers, Inc. (ABBAE) is pleased to provide a description of the testing scope for excavation around utilities at the Millennium Towers, located at 301 Mission Street in San Francisco, CA. The description of the services is intended as a general outline of services that will be performed on site; further investigation may be required. All additional services will be discussed between the attorneys' representative, testing contractor, and ABBAE managerial staff to discuss the extent of investigation. Please distribute testing protocol to the management and contractor in efforts to assist them with their notices for testing.

Destructive testing projected date. (Subject to change)

- 1. DT and water testing is currently scheduled for TBA
- 2. Workday Schedule:
  - 7:30 am set-up for DT
  - 8:00 am 4:15 pm DT (1-hour break for lunch)
  - 4:15 pm 5:00 pm temporarily close up all DT areas.



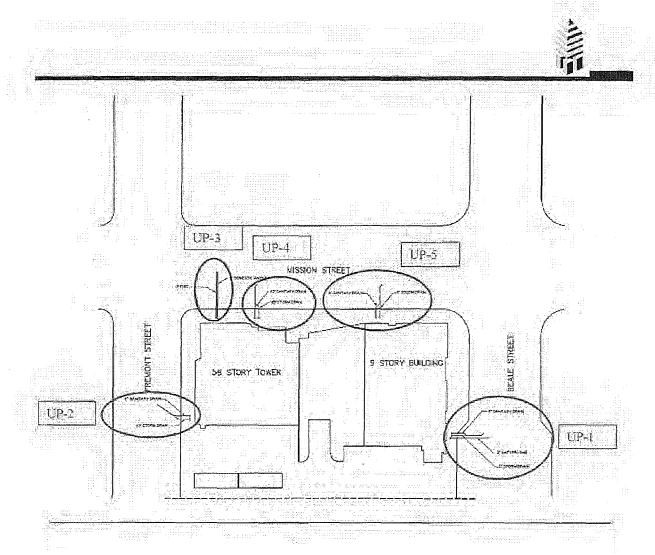
#### GENERAL SCOPE

Contractor to provide access and control to all building components scheduled for testing. Prior to start of the testing, a responsible contractor's representative will meet with owner's representative to identify general test locations, review testing and forensic investigation requirements, and schedule arrival and set up of all necessary equipment prior to the first day of testing. Testing includes access to building exterior at the ground level.

- Contractor is to coordinate testing locations and procedures with building management.
- Provide equipment for investigation as required to demolish concrete sidewalk, excavate dirt, provide shoring, remove or store dirt as necessary.
- Effectively communicate with local building officials to secure the necessary permits required for testing and repairs. This includes the excavation, street access, pedestrian traffic, build-back and any other items included in this scope of work. Coordinate with PG&E as needed.
- Contractor to have a USA inspection performed prior to the start of the excavation to accurately map out the utility lines.
- 5. Coordinate with retail tenants that will be affected prior to your start date.
- 6. Contractor to provide proper debris protection for all personal property including vehicles.
- 7. Provide all necessary materials to properly repair and restore all work areas to match existing sidewalks.
- 8. Contractor to perform under the direction of the consultant at each respective location.
- Contractor needs to be aware of all utility shut-offs prior to excavation. This includes gas, electrical, fire sprinkler, irrigation, water, etc.
- Prepare trades (i.e.) electrical, plumbing, telecommunication) that will be available for any possible emergency repairs that may be needed during or after the excavation.
- 11. Temporarily close and protect testing locations at the end of each workday prior to leaving the site.

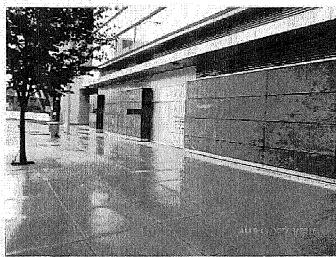
#### EXCAVATION AT EXISTING UTILITIES

ABBAE will observe excavations at 5 areas around the perimeter of the building, which includes approximately 10 individual utility lines. These lines include sform and sanitary drain, fire, domestic water, and natural gas. Contractor is responsible for making all the necessary arrangements in order to perform all excavations in a timely fashion. Excavations will need to extend at least 3 feet wider than the marked utility lines and approximately 10 feet away from the building. The contractor should be prepared to excavate approximately 8 feet deep, depending on the location of the utility lines. The entire circumference of the utilities needs to be exposed. Below is a map of the utilities and photos that show the garage and street views at the testing locations:





#### Photo Section

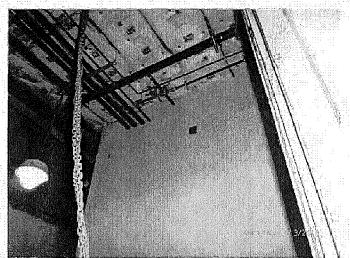


**UP-1** Beale Street Elevation

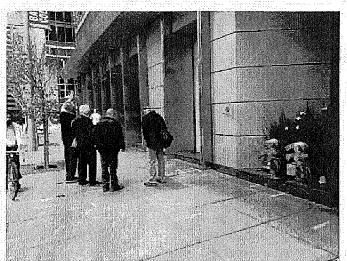


UP-1 Beale Street Elevation: Storm, Sanitary and Natural Gas





UP-1 Beale Street Elevation: Garage View

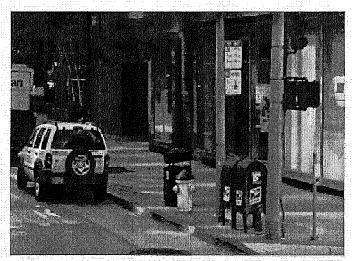


UP-2 Fremont Street: Storm, Sanitary Drains



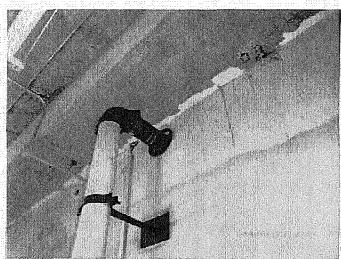


**UP-2 Fremont Street Elevation: Garage View** 

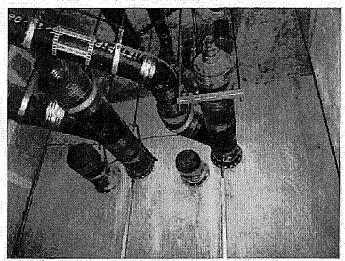


**UP-3 Mission Street: Domestic Water and Fire** 



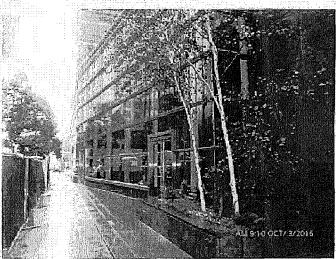


**UP-3 Mission Street: Garage View** 

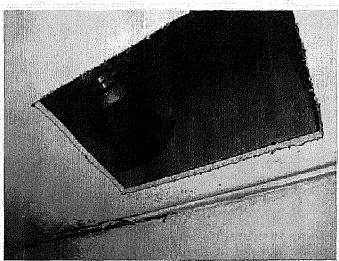


UP-4 Mission Street Elevation: Storm, Sanitary





UP-5 Mission Street Elevation: Storm and Sanitary



UP-5 Mission Street: Garage View

Please don't hesitate to contact me if there are any questions.

Sincerely,

Utilities Excavation Millennium Towers Mediation/Settlement Communications Evidence Codes 1119 and 1152

November 15, 2016 Page 8 of 9



Allana Buick & Bers, Inc.

Roberto Hernandez Forensic Services Manager

CC: Karim Allana Eugene Buick

#### Khoo, Arthur (BOS)

From:

Yuri KUMAZAWA <kumazawa_yuri@hotmail.com>

Sent:

Sunday, January 29, 2017 5:51 PM

To: Subject:

Board of Supervisors, (BOS)
Why a statue of comfort women in San Francisco?

Dear sir/madame,

I am writing to you concerning a discussion building a memorial for "comfort women" in San Francisco Park. I guess you have been receiving messages from Japan asking to decline the plan to set a statue of Comfort Women in San Francisco. I am also one of Japanese women writing to you on the same subject.

I beleive majority of American people only learn the history of comfort women from point of view of Koreans which is based only on the testimonies of "comfort women" while the findings and evidences on the documentary studies done by Japanese researchers did not seems to be considered. I would request you to check the fact again as I do not want the American public park to have a statue created from "false stories" which is really an ashame...

UNITED STATES OFFICE OF WAR INFORMATION Psychological Warfare Team Attached to U.S. Army Forces India-Burma Theater Japanese Prisoner of War Interrogation Report No. 49

http://www.sdh-fact.com/CL02 4/8 S1.pdf

Changes in Lee Yong-Soo Testimonies <a href="http://bit.ly/2gjijQV">http://bit.ly/2gjijQV</a>

Anyway the issue of comfort women is a very controversial, sensitive issue and indeed a point of political contest between Japan and Korea as of today. And I do not understand why Americans have to be part of the game. I also see the proposal of building the statue is deviding the migrants from Korea and Japan, provocking hate crimes. Idon't see any point of creating such problems in the communities. Problems should be and can be solved by much positive ways.

I request you not to accept the proposal of setting the statue. Thank you very much for your consieration.

Sincerely yours
Yuri KUMAZAWA

Aichi Japan

#### Khoo, Arthur (BOS)

From:

Matthew Heckert <info@actionnetwork.org>

**Sent:** Sunday, January 29, 2017 1:43 PM

To:

Mar, Eric (BOS); Farrell, Mark (BOS); Peskin, Aaron (BOS); Tang, Katy (BOS); BreedStaff,

(BOS); Yee, Norman (BOS); Campos, David (BOS); Cohen, Malia (BOS); Avalos, John

(BOS); Board of Supervisors, (BOS)

Subject:

Support Free City College appropriation

City Council,

I commend and thank the Board of Supervisors for pledging to make City College FREE for San Franciscans. I urge you to support the next crucial step in this process by voting yes on Supervisor Kim's ordinance to appropriate \$9 million of Real Property Transfer Tax in FY2016-2017 to fund the Community College Fund and make City College of San Francisco tuition-free for all San Francisco residents starting in 2017. This budget appropriation is a critical step to fulfill the wishes of the overwhelming majority of San Francisco voters who supported Proposition W on November 8th. Thank you in advance for your support of this important effort to expand access to higher education for all San Franciscans.

Matthew Heckert
guzzimatt@gmail.com
5933 MacCall st
Oakland, California 94609

January 27, 2017

#### BY EMAIL AND U.S. MAIL

San Francisco Police Commission Police Commission Office 1245 3rd Street San Francisco, California 94158 sfpd.commission@sfgov.org

#### Dear Commissioners:

We, the undersigned, are leaders, members, and allies of the lesbian, gay, bisexual, transgender, and queer (LGBTQ) community of San Francisco. The LGBTQ community is a vibrant patchwork of many communities, including people who are Arab, Middle Eastern, Muslim, South Asian (AMEMSA), and people who are undocumented. People in the AMEMSA community and undocumented people are our friends, neighbors, partners, and colleagues.

In that spirit, we write to join our colleagues at the Asian Law Caucus, ACLU of Northern California, and Council on American-Islamic Relations San Francisco Bay Area Office in urging you to fully implement the 2012 Safe San Francisco Civil Rights Ordinance and to protect the integrity of our Sanctuary City law.¹

The Safe San Francisco Civil Rights Ordinance forbids any SFPD officers working with the FBI on the Joint Terrorism Task Force from participating in any work that targets people—without reasonable suspicion of criminal behavior—based solely or partially on their religion or national origin. Our Sanctuary City law prohibits SFPD officers from participating in efforts to identify undocumented people in our City.

President Donald J. Trump campaigned on the promise that he would target members of the AMEMSA community and people who are undocumented. If this Ordinance is not effectively enforced, and if SFPD officers are not fully trained to understand and follow its requirements, those local officers will become entangled in the implementation of Trump's policies, which our City's leadership and residents have unequivocally rejected. Our City put the Ordinance in place to make sure that this doesn't happen. Similarly, the Sanctuary City law was put in place to prevent our local law enforcement officers from being used by federal agencies to target undocumented people.

¹ See ALC, CAIR, and ACLU Letter to Police Commission, Jan. 05, 2017, available at https://ca.cair.com/sfba/wp-content/uploads/2017/01/2017.01.05_ALC-CAIR-ACLU-NC-Ltr-re-SFPD-Participation-in-JTTF.pdf.

San Francisco Police Commission January 27, 2017 Page 2 of 5

We respect and value the important role of law enforcement—local, state, and federal—in protecting residents from crime, including terrorism. But fighting crime should never mean targeting a community as if all of its members were criminals. As members and leaders of communities who have historically been subject to monitoring, surveillance, and intelligence-gathering due to our First Amendment activities, we refuse to forget our history and our struggle for freedom in this country.

Before the Ordinance passed, SFPD officers on FBI-led cases could answer only to Washington—not to California and San Francisco laws and leaders. In a 2010 Human Rights Commission hearing, Asian Law Caucus attorney Veena Dubal reported:

"I have clients who are small business owners, American citizens who are regularly visited by the FBI at their place of work, in San Francisco. I have clients who are university students who are visited by FBI right outside of campus; I know an educator who is regularly visited by FBI agents. What do all these people have in common? Nothing, except that they are all innocent Americans who pay taxes, contribute to their community and the economy and who have immaculate criminal records, no criminal records --- they just happen to be Muslims."²

Other attorneys at the hearing warned that without additional backing, SFPD officers would face "pressure" to not comply with San Francisco laws protecting First Amendment activity. The hearing's findings were published in a 2011 report, and the Board of Supervisors passed a unanimous resolution urging action.

The Ordinance was supposed to answer to these concerns, but now—nearly five years later—the work remains unfinished. The Office of Citizen Complaints held in August 2016 that there had been a training failure, and that SFPD officers were not aware of their obligations. In the five years of the Ordinance being in effect, not one authorization has been sought or retained (despite the fact that SFPD

² San Francisco Human Rights Commission, "Community Concerns of Surveillance, Racial and Religious Profiling of Arab, Middle Eastern, Muslim, and South Asian Communities," (report adopted February 24, 2011) ("SF HRC Report"), at p. 18.

³ *Id*.

⁴ Resolution No. 160-11, "Endorsing Community Concerns of Surveillance, Racial, and Religious Profiling," (April 5, 2011).

San Francisco Police Commission January 27, 2017 Page 3 of 5

officers have been involved in dozens of Joint Terrorism Task Force operations). In addition, we have reason to believe that SFPD Joint Terrorism Task Force officers, in conjunction with the FBI, conducted "U.S. person checks" regarding some of the targets of these operations, in violation of the Sanctuary City Law.

To this end, we request the following:

- 1) That the SFPD provides its officers working with the FBI's Joint Terrorism Task Force clear instruction and specific training on the requirements of the Ordinance as soon as possible;
- 2) That all SFPD officers assigned to the Joint Terrorism Task Force refrain from making database inquiries about any individual's "U.S. person status" during their JTTF activities so they will be in compliance at all times with our Sanctuary City law; and
- 3) That SFPD officers obtain the necessary written supervisory approvals, that the approvals are documented and retained, and that "reasonable suspicion" is properly shown before SFPD officers participate in any Joint Terrorism Task Force work, going forward.

Mayor George Moscone and Supervisor Harvey Milk fought hard for our San Francisco values. Moscone led the fight to enshrine the right to privacy in our state constitution. Milk made community oversight of police a top priority and pushed hard to get an LGBT person appointed to the Police Commission.

Good police work doesn't require racial profiling and unaccountability. To maintain a city that prides itself on welcoming people of all sexual orientations, gender identities, races, religions, and nationalities, we'd do well to remember George Moscone and Harvey Milk's legacy and enforce the Safe San Francisco Civil Rights Ordinance.

Respectfully,

Kate Kendell Executive Director National Center for Lesbian Rights

Hon. David Campos Fmr. Supervisor San Francisco Board of Supervisors San Francisco Police Commission January 27, 2017 Page 4 of 5

Hon. Peter Keane Fmr. Commissioner San Francisco Police Commission

Hon. Tom Temprano Board of Trustees City College of San Francisco

Kate Walsham & Steve Tang Co-Chairs Pride Law Fund

Hon. Tom Nolan Fmr. Chairperson SFMTA Board of Directors

Hon. Angela Alioto Fmr. Supervisor San Francisco Board of Supervisors

Hon. Rafael Mandelman Board of Trustees City College of San Francisco

Hon. Gwenn Craig Fmr. Commissioner San Francisco Police Commission

Rebecca Prozan Fmr. Prosecutor San Francisco District Attorney's Office

Daniel Redman Attorney

CC: Mayor Edwin M. Lee
Supervisor Sandra Lee Fewer
Supervisor Mark Farrell
Supervisor Aaron Peskin

San Francisco Police Commission January 27, 2017 Page 5 of 5

Supervisor Katy Tang
Supervisor London Breed, President of the Board
Supervisor Jane Kim
Supervisor Norman Yee
Supervisor Jeff Sheehy
Supervisor Hillary Ronen
Supervisor Malia Cohen
Supervisor Ahsha Safai
San Francisco Chief of Police William Scott

Joyce Hicks, Executive Director, Department of Police Accountability



Edwin M. Lee, Mayor Tom C. Hui, S.E., C.B.O., Director

November 29, 2016

Mr. Denis F. Shanagher, Partner Duane Morris LLP Spear Tower One Market Plaza, Suite 2200 San Francisco, CA 94105-1127

Via E-mail: <a href="mailto:dfshanagher@duanemorris.com">dfshanagher@duanemorris.com</a>

Dear Mr. Shanagher:

Please transmit a copy of all monitoring data obtained to date by Patrick Shires through his geotechnical investigation at 301 Mission Street to DBI Principal Engineer Hanson Tom by December 1, 2016. As you know, Mr. Shires agreed in his September 29, 2016, letter to Director Hui to provide such reports on a monthly basis. To date DBI has not received any of the promised monthly monitoring reports.

Thank you for offering to have Mr. Shires come to DBI to discuss the status of his geotechnical investigation, preliminary findings, and other data and findings related to building safety on December 14 at 10 a.m. We will schedule the meeting for the proposed date and time at DBI. Please note that a meeting or meetings, while useful, do not take the place of the promised monthly written reports.

Thank you in advance for your much appreciated continuing efforts to work cooperatively with the Department of Building Inspection on its 301 Mission Street investigations.

Sincerely,

Tom C. Hui, S.E., C.B.O.

Tom Ci Hi

Director



City and County of San Francisco

November 16, 2016

Professor Jack P. Moehle Civil and Environmental Engineering University of California Berkeley 775 Davis Hall, Berkeley CA

Dear Prof. Moehle:

Thank you for your initial willingness to participate in tomorrow's hearing at the Government Audit and Oversight Committee. As you know, the details of the review and approval process of both the 80 Natoma and 301 Mission projects have profound implications not only for the safety and habitability of existing high-rises in our downtown core, but also for future developments in this seismically vulnerable area.

I understand that you are no longer willing to attend the hearing. As I relayed to you in our phone conversation earlier this week, I have directed our City Attorney to draft legislation allowing the Board of Supervisors to subpoena you and any related documents in your possession relative to the 80 Natoma and 301 Mission projects, including correspondence with peer review panelists, as a result.

I believe that your institutional knowledge of both of these projects, as well as your familiarity with the civil and environmental engineering requirements necessary to ensure state-of-the-art building standards are critical for the City to consider as we move forward with our own policy reforms.

I hope that you will reconsider the valuable role that you can play in assisting the City with these reforms, and I look forward to eventually working with you toward that end.

Best.

Aaron Peskin

San Francisco Supervisor

District 3

# Member, Board of Supervisors District 3



City and County of San Francisco

November 16, 2016

Tom C. Hui
Department of Building Inspection, Director
1660 Mission Street, Sixth Floor
San Francisco, CA 94103
CC: William Strawn; Lily Madjus; Erica Major

Dear Director Hui,

Thank you again for your cooperation thus far in the ongoing hearings on San Francisco building standards in seismic zones, as well as the specific safety review process for the 301 Mission Street project, otherwise known as the Millennium Tower.

In preparation for tomorrow's hearing, I wanted to follow up on any progress that the Department of Building Inspection (DBI) has made relative to securing and compiling relevant documents from key points in the 301 Mission vetting and approval process.

I have reviewed a screen shot of a revised January 2006 letter written by Hardip Pannu, one of the experts tapped to review the structural safety of the 301 Mission project. A reference to correspondence dated August 30, 2005 is included therein, but this 2005 correspondence is not included in the previous data dumps that you have transmitted, to the best of my knowledge. Please produce this or explain its absence.

I am curious as to why there is no documentation that DBI formally retained the services of either Mr. Pannu or Professor Moehle specifically as peer review panelists (as opposed to consultants) or any documentation delineating their anticipated scope of work. I am also curious as to why there is no letter confirming that DBI engineer Hanson Tom directed or requested peer review panelists Mr. Pannu and Professor Moehle to include the Transbay project in their review and analysis, as indicated in Mr. Pannu's January 2006 revision of the August 30, 2005 letter? By way of understanding the review timeline, please explain whether Mr. Pannu and Professor Moehle were hired before or after they did work for DeSimone Consulting Engineers?

Finally, I am still waiting for the four volume foundation permit application for the 301 Mission project, dated May 24, 2005 and prepared by DeSimone Consulting Engineers for the Department of Building Inspection, referencing Project 4069. At our last hearing, we touched on the practice of keeping original hard copies of key documents like permits, charge letters and permit applications, much like marriage or business license applications. I wanted to confirm in writing what the Department's practice has been with respect to these documents and whether or not you have retained the actual letters themselves, as required.

Please let my staff know if we can expect these documents or written responses to these questions within the next week.

Thank you again for your cooperation,

Aaron Peskin

San Francisco Supervisor

District 3

## City and County of San Francisco Department of Building Inspection



Edwin M. Lee, Mayor Tom C. Hui, S.E., C.B.O., Director

# **MEMORANDUM**

DATE:

October 31, 2016

TO:

Naomi Kelly, City Administrator

FROM:

Tom C. Hui, S.E., C.B.O.

Director

SUBJECT:

301 Mission Peer Review

Given the many questions Supervisor Peskin directed to DBI at last Friday's hearing on when we may be able to inform him that we have the technical peer review experts onboard we need for the independent peer review work, I am writing to ask you to expedite this process.

Even if we might be able to recruit immediately only some of the peer review expertise fields, I urge you to move forward so that we might begin, for example, review of at least some building safety aspects of the newly-released Hamburger Report. Perhaps the first thing we can get the peer reviewers to do –once they are on contract with the City – is to focus on what they need to reach an initial conclusion about general building safety (vs. imminent public safety threat), and focus their first efforts on this.

While I do understand the complexities involved, and the time these types of consultant contracts can take, I do hope we can speed up this process ASAP – and let the Supervisors know as soon as we have a definite date.

Thank you, as always, for your support and assistance.

CC:

Mayor Ed Lee

President London Breed and Members of the Board of Supervisors Department of Emergency Management Director Anne Kronenberg Ron Tom, Assistant Director
Ed Sweeney, Deputy Director, Permit Services
Dan Lowrey, Deputy Director, Inspection Services
Taras Madison, Deputy Director, Administrative Services
Hanson Tom, Principal Engineer
Gary Ho, Structural Engineer
Lily Madjus, Communications Officer
William Strawn, Legislative and Public Affairs Manager

OFFICE OF THE DIRECTOR

1660 Mission Street – San Francisco CA 94103 Office (415) 558-6131 – FAX (415) 558-6225 Email: Tom.Hui@sfgov.org

## City and County of San Francisco Department of Building Inspection



Edwin M. Lee, Mayor Tom C. Hui, S.E., C.B.O., Director

16975

October 27, 2016

Angus McCarthy President, Building Inspection Commission 1660 Mission Street, Suite 600 San Francisco, CA 94103

Dear President McCarthy and Members of the Commission:

Per the discussion at last week's regular Building Inspection Commission meeting, where you requested more details on what DBI has been doing to address the settlement issues at 301 Mission Street, please note the following:

Generally, as you know, DBI's overall mission is to oversee the effective, efficient, fair and safe enforcement of the City and County of San Francisco's Building, Housing, Plumbing, Electrical and Mechanical Codes, along with Disability Access regulations, as applied to the more than 200,000 residential and commercial buildings in the City. Through a long-established complaint process, any San Francisco citizen can contact DBI with a concern, which may trigger an immediate inspection of any alleged building code violation and related life safety hazards.

Our housing code protects renters and homeowners from a wide range of reported habitability issues. Our building safety work includes responding to structural integrity and imminent public safety hazards from possible structure collapse following severe fires, as well as being among the City's 'First Responders' following an earthquake and/or natural disaster.

In addition to these broad building safety responsibilities, DBI's core services includes oversite of building code compliance through three specific activities: (1) to review plans and designs developed and stamped by licensed, registered architects and engineers hired by project sponsors for compliance with building code provisions in effect at the time the plans are submitted for review; (2) to conduct site inspections to verify that the performance of construction work is in accordance with approved plans; and (3) to address code compliance issues raised through complaints submitted by San Francisco residents.

# 301 Mission Street's Building Permit Process (2002-2009)

DBI provided a careful and thorough review of the 301 Mission Street building's permit application from 2002 to 2005, checking to ensure that the plans conformed to the requirements of the 1998-2001 San Francisco Building Code – the code in effect at the time the original project application was filed at DBI. This project consisted of a 12-story mixed-use building, tied to a 58-story concrete tower of more than 400 residential condo units, with a mat-slab foundation and piles that go down approximately 90 feet into Bay mud. After DBI's issuance of the

#### OFFICE OF THE DIRECTOR

1660 Mission Street – San Francisco CA 94103 Office (415) 558-6131 – FAX (415) 558-6225 Email: Tom.Hui@sfgov.org Certificate of Final Completion (CFC) and occupancy for the 301 Mission project in 2009, the project's immediate neighbor, the Transbay Joint Powers Authority (TJPA), as part of its construction of the Transbay Transit Center, installed an impermeable wall around the entire Transit Center site that reaches down into the clay layer substrate. In addition, along its property boundary line with 301 Mission Street, the TJPA constructed an approximately 30-foot wide buttress wall that goes down to bedrock, approximately 200-feet below grade.

The engineer of record submitted plans for this project as a code-prescriptive design building, which meant the project would adhere strictly adhering to design and construction requirements set forth in the 1998 SF Building code (SFBC). The SFBC provides the minimum code requirements –though more restrictive than State codes to help manage the City's unique geography, topography and location adjacent to major earthquake faults – developers must follow when constructing their buildings. DBI's role in this process is to ensure they do this by reviewing the plans and addenda submitted during the plan review process.

At the time DBI was reviewing 301 Mission, DBI did not have the authority to require the developer to retain a geotechnical engineer as prescriptive code requirements—the design submitted for this project—did not require it; however, DBI did negotiate with the developer and persuaded the engineer of record to retain a third-party structural engineer, and a highly respected academic with seismic expertise, to review and approve the addenda produced by the developer's retained licensed experts.

The peer-review panel members were: (1) Jack P. Moehle, Ph.D., PE, a nationally recognized U.C. Berkeley engineering professor with expertise in the design and behavior of structures with emphasis on seismic performance of concrete buildings and infrastructure; and (2) Hardip S. Pannu, S.E., a Principal in the engineering firm of Middlebrook & Louie. The developer's engineer of record rejected DBI's explicit request to fund the addition of a geotechnical engineer to this peer-review panel. Nonetheless, Professor Moehle issued a letter to DBI dated January 29, 2006, stating: "On the basis of my review, it is my opinion that the foundation design is compliant with the principles and requirements of the building code, and that a foundation permit can be issued for this project."

From January 2006 (project construction start) to August 2009 (certificate of final completion issuance), DBI conducted more than 500 visual site inspections, in addition to hundreds of special inspections conducted by third-party experts hired by the project sponsors to review Building Code-compliant installations of specific technical building components. The purpose of all of these inspections was to ensure that the general contractor's construction activities were in accordance with the various Building Codes and DBI-permitted, and approved, plans and specifications.

On February 2, 2009, based on concerns of settlement at the site, DBI's Deputy Director Raymond Lui sent a letter to the projects Engineer of Record, DeSimone Consulting Engineers, raising specific questions about larger than anticipated amount of settlement that the 301 Mission building experienced. Mr. Lui asked pointed questions about the settlement of the building, including the actual amount and rate of settlement, deferential settlement, reasons for

the settlement, how the existing settlement might affect the structural safety of the building then and in the future.

The Engineer of Record DeSimone Consulting Engineers; the Geotechnical Engineer of Record, Treadwell & Rollo; and the project Architect, Handel Architects, provided written responses in a letter from DeSimone dated February 25, 2009. DeSimone wrote:

The original project design by DeSimone and Handel Architects accommodated 6 inches of total settlement under the Tower... No differential settlements between the adjacent walls/columns are expected and none have been reported to DeSimone...Since settlement of the Tower was anticipated and planned for during design, it has created no known problems for the Tower or Mid-rise Structures... It is our professional opinion that the structures are safe.

# Treadwell & Rollo's response stated:

The actual settlement of the Tower is 8.3 inches... The results of our latest evaluations indicate that approximately two to four inches of additional settlement could occur in the future...Treadwell & Rollo, Inc., as the geotechnical engineer of record has been aware of the settlement of the Tower and continues to evaluate the results of monitoring... While the settlement of the Tower is greater than originally anticipated, this settlement should not pose issues with foundation support for the Tower.

Handel Architects offered the following additional information:

We are aware that additional settlement has occurred, and may continue to occur, and we have taken these conditions into account with modifications to the original design where necessary... Utility lines have been designed and installed with flexible connections (allowing for horizontal and vertical movement...to avoid possible interference from future anticipated settlement.

In short, these responses from 301 Mission's engineers of record made it very clear to DBI that the building was stable and safe for occupancy even though the building had settled more than originally estimated. DBI engineers were satisfied with these explanations and the assurances of overall building safety. In addition, DBI's site inspections for all critical building systems and design showed that the design team and general contractor had achieved code compliance in the building's construction. In reliance on the information, assurances, and professional opinions expressed by DeSimone, Treadwell & Rollo, and Handel Architects, DBI issued a certificate of final completion (CFC) in August 2009 upon construction completion. The CFC allowed occupation of the building by homeowners and other tenants.

Millennium Tower was one of the first high-rise buildings constructed in the downtown neighborhood. Since then, DBI has expanded the breadth of its peer-review process to apply to any buildings built over 240 feet high and to buildings using performance-based design, which uses an alternative method of construction and differs greatly from a code-prescriptive design building. Based in part on DBI's experience with 301 Mission and other tall building projects being proposed at that time, DBI issued in March 2008 two new Administrative Bulletins (AB), Numbers 082 and 083, requiring peer review of any proposed "performance-based" designs by a geotechnical specialist, a structural specialist, and by an academic professor with expertise in seismic safety elements. This expansion of required peer review by DBI was regarded as 'cutting edge' in 2008, and is now used by other major cities throughout the U.S. These 2008 AB technical guidelines and requirements added an extra dimension of building safety scrutiny — and continue to help DBI staff review the complex designs of tall buildings.

# New Concerns Surface over Additional Settlement at Millennium Tower (July 2016 to Present)

Until DBI received a phone inquiry from SF Chronicle reporter Andy Ross in July 2016, DBI had been unaware of ongoing settlement issues at 301 Mission Street. DBI records show that DBI did not receive a single homeowner or citizen complaint, or information from any source expressing concern from 2009 until this contact from the SF Chronicle about possible settlement impact on any of the building's essential systems, or any impact on any residents' homes, such as plumbing or electrical problems, a non-functioning elevator, etc.

Once DBI heard about the settlement concerns from the Chronicle and other media in mid-July, 2016, DBI Director Tom Hui also heard from a representative of Millennium Partners about a draft engineering report. Millennium Partners then delivered to DBI on July 20, 2016 a Draft copy of a 2014 report by Structural Engineer, Ronald Hamburger, of Simpson, Gumpertz & Heger, who had been retained by Millennium Partners. DBI also requested and received some settlement monitoring data from ARUP Engineers, one of the Transbay Joint Powers Authority's consultants, who had been tracking settlement data from equipment installed inside the basement of 301 Mission Street. After reviewing this information, Director Hui directed staff to perform an informal visual site inspection, pull together all relevant building records, and draft a preliminary report on the status of the 301 Mission buildings based upon the still limited available data. DBI staff conducted the informal site visit on July 20, 2016 and, on August 4, 2016, DBI engineering staff completed a draft preliminary engineering report relying upon available information in its possession at that time. Having been told by Mr. Hamburger that he was continuing to work on updating his review and analysis, DBI decided to await the arrival of requested additional engineering updates before finalizing and releasing its draft August 4th preliminary report.

Mr. Hamburger's final and signed report was recently issued on October 3, 2016. This report concludes, "...On the basis of our updated analysis of the 301 Mission tower, we conclude that the effect of settlement on most building elements is negligible...We conclude that the settlements experienced by the 301 Mission tower have not compromised the building's ability to resist strong earthquakes and have not had a significant impact on the building's safety." DBI has performed a preliminary review of this report and, based upon this report and other evidence such as site visits from City staff representing DBI, Fire and PUC,

concludes that the building is currently safe for occupancy. DBI is awaiting the input of a peer review team of experts the City is in the process of hiring before it will issue a final opinion on the conclusions reached in this report and any other reports or information directly related to the safety of the 301 Mission Street buildings.

In addition to Mr. Hamburger's signed 2016 report, DBI also requested updated engineering reports from the Homeowners' Association by the end of September 2016, per a Correction Notice a DBI inspector issued on August 26, 2016 in response to a 311 complaint and site inspection on August 19, 2016. The HOA has engaged a geotechnical engineer, Mr. Patrick Shires, to conduct extensive tests and analyses that began on September 26th. Consequently, the HOA asked DBI for a time extension in producing its engineering report, which DBI granted with the stipulation that the engineer of record keep DBI updated monthly on findings and results. DBI also has been provided over 140 data records — with thousands of pages of data — from Millennium Partners and is in the process of reviewing these records.

In summary, DBI professionals did exactly what they were supposed to do with respect to the 301 Mission plan review and approvals from submittal in 2002, to multiple inspections performed over several years during the building construction by building inspectors, fire inspectors, and Special Inspectors, up to the issuance of the Certificate of Final Completion in August 2009. As noted above, and based upon reports provided to DBI to date by the owners' engineering experts, and upon our own inspectors' observations during recent visits, the building remains safe for occupancy.

DBI staff members and other affected City departments are continuing to monitor the building's settlement situation closely, especially with respect to any possible impact upon the building's life-safety systems. We are obtaining, and reviewing carefully, updated technical studies by the owners' technical teams that also will be given to the expert peer review panel once that panel is engaged by the City.

#### **DBI Next Steps**

We also have initiated a number of immediate action steps to consider more stringent construction requirements for tall buildings over 240 feet located on soft soils, including:

- Changing immediately the selection process for peer review experts, as announced at the October 17, 2016 Building Inspection Commission, whereby DBI will make these appointments without participation by the project sponsor.
- Reviewing and modifying ABs 082 and 083 to reflect best engineering practices and to benefit from 'lessons learned' for the 301 Mission settlement issues.
- Working closely with the City Administrator to identify, and engage, independent peer review experts and establish an effective process for obtaining highly skilled professionals on an as-needed basis to ensure we have the expertise required to review and approve highly complex tall building construction.

 Taking immediate steps to improve DBI's records' retention process, including making certain that all engineering letters related to tall building construction projects are retained, and made more readily retrievable.

I will continue to provide you with periodic updates on the 301 Mission settlement situation as new information becomes available to DBI. Please call me directly if I may answer any questions on this important, and highly complicated, building safety matter.

Sincerely,

Tom C. Hui, S.E., C.B.O.

Tom Coffee

Director

cc: Mayor Ed Lee

President London Breed and Members of the Board of Supervisors

City Administrator Naomi Kelly

Department of Emergency Management Director Anne Kronenberg

Ed Sweeney, Deputy Director, Permit Services

Dan Lowrey, Deputy Director, Inspection Services

Hanson Tom, Principal Engineer

Gary Ho, Structural Engineer

Lily Madjus, Communications Officer

William Strawn, Legislative and Public Affairs Manager

#### ADMINISTRATIVE BULLETIN

NO. AB-082

DATE : March 25, 2008 (Updated 1/1/14 for code references)

**SUBJECT**: Permit Processing and Issuance

TITLE : Guidelines and Procedures for Structural Design Review

**PURPOSE**: The purpose of this Administrative Bulletin is to present guidelines and procedures for

Structural Design Review. Structural Design Review may be required by the San Francisco Building Code, by another Administrative Bulletin, or at the request of the Director of the

Department of Building Inspection.

**REFERENCES**: 2013 San Francisco Building Code

- Section 101A.2, Purpose

- Section 104A.2, Powers and Duties of Building Official

- Section 104A.2.8, Alternate materials, design, and methods of construction

- Section 105A.6, Structural Advisory Committee

- Chapter 16, Structural Design

ASCE 7-10

- Section 16.2.5 Design Review, Seismic Response History Procedures

- Section 17.7 Design Review, Seismically Isolated Structures

- Section 18.8 Design Review, Structures with Damping Systems

#### DISCUSSION

#### 1. STRUCTURAL DESIGN REVIEWER

The Director may request the assistance of a Structural Design Reviewer to provide additional and specialized expertise to supplement the Department of Building Inspection plan review. The Structural Design Reviewer is distinct from a Structural Advisory Committee, which is a formal, public body that the Director may convene regarding matters pertaining to special features or special design procedures. The Structural Design Reviewer meets with the Engineer of Record and with Department of Building Inspection staff as the need arises throughout the design process, providing the Director with a report of its findings after completion of their work.

Review by the Structural Design Reviewer is not intended to replace quality assurance measures ordinarily exercised by the Engineer of Record in the structural design of a building. Responsibility for the structural design remains solely with the Engineer of Record, and the burden to demonstrate conformance of the structural design to the letter and intent of San Francisco Building Code provisions resides solely with the Engineer of Record. The responsibility for conducting the structural review for the plan check resides with the Director and any plan review consultants.

The San Francisco Building Code (through reference to ASCE 7) requires design review by independent registered design professionals in several cases. These include use of seismic response history procedures, use of seismic isolation, and use of seismic dampers. The Structural Design Reviewer will provide this review where required by the San

Francisco Building Code. The Structural Design Reviewer will also provide review as required by other Department of Building Inspection Administrative Bulletins and when otherwise deemed necessary by the Director. Structural Design Review, as discussed herein, and design review, as discussed in ASCE 7, are equivalent.

# Qualifications and Selection of Structural Design Reviewer

The Structural Design Reviewer shall be a recognized expert in relevant fields such as structural engineering, earthquake engineering, performance-based earthquake engineering, nonlinear response history analysis, building design, earthquake ground motion, geotechnical engineering, geological engineering, and other areas of knowledge and experience relevant to the project.

The Structural Design Reviewer shall be selected by the Project Sponsor from a project specific list provided by the Director. The Project Sponsor may then engage a Structural Design Reviewer as a consultant for assistance as appropriate. The Structural Design Reviewer shall bear no conflict of interest with respect to the project and shall not be considered part of the design team for the project. The responsibility of the Structural Design Reviewer is to assist the Department of Building Inspection in ensuring compliance of the structural design with the San Francisco Building Code. While the Structural Design Reviewer will contract with the Project Sponsor, their responsibility is to the Department of Building Inspection.

The Structural Design Reviewer shall be registered as a Professional Engineer in California. The Structural Design Reviewer shall sign all written communication to the Director.

#### Administration of Structural Design Review

The Project Sponsor is responsible for the payment of hourly fees and other expenses for the professional services of the Structural Design Reviewer. The Structural Design Reviewer shall provide to the Department of Building Inspection a written copy of a proposed scope of work of their contract with the Project Sponsor. The proposed scope of services in the contract and any changes proposed to be made thereto shall be approved by the Director.

#### 2. PROJECTS REQUIRING STRUCTURAL DESIGN REVIEW

The Director may require Structural Design Review for any project at his discretion. The following types of projects will generally require Structural Design Review:

- 1. Projects incorporating non-prescriptive or performance-based design.
- 2. Projects incorporating building heights that exceed 240 feet.
- 3. Projects incorporating seismic response-history analyses per Chapter 16 of ASCE 7.*
- 4. Projects incorporating seismic isolation per Chapter 17 of ASCE 7.*
- 5. Projects incorporating seismic damping per Chapter 18 of ASCE 7.*
- 6. Projects with irregular and unusual configurations or systems.

Project Sponsors are strongly encouraged to contact the Department of Building Inspection early in the design to determine Structural Design Review requirements.

*Note: To the extent design review is required under ASCE 7-10, Sections 16.2.5, 17.7 or 18.8, such review process shall be conducted in accordance with the specific requirements of the Building Code and all applicable law."

#### 3. SCOPE OF STRUCTURAL DESIGN REVIEW SERVICES

The scope of services for the Structural Design Reviewer shall be indicated by the Director to provide required expertise to supplement the Department of Building Inspection plan review. It may, therefore, be only for specific portions or structural elements of a project. This scope of services may include, but shall not be limited to, review of the following:

- 1. Earthquake hazard determination.
- 2. Site-specific ground motion characterization.
- 3. Seismic performance goals.
- 4. Basis of design, design methodology and acceptance criteria.
- 5. Mathematical modeling and simulation.

- 6. Interpretation of results of analysis.
- 7. Member selection and design.
- 8. Detail concepts and design.
- 9. Construction Documents, including drawings and specifications.
- 10. Isolator or damper testing requirements and quality control procedures.
- 11. At the discretion of the Director, the scope of services for the Structural Design Reviewer may include the review of other building aspects, including design for wind resistance, design of special foundation or earth retaining systems, or the design of critical non-structural elements.

#### 4. STRUCTURAL DESIGN REVIEW PROCESS

The Structural Design Reviewer should be engaged as early in the structural design phase as practicable. This affords the Structural Design Reviewer an opportunity to evaluate fundamental design decisions, which could disrupt design development if addressed later in the design phase. Early in the design process, the Engineer of Record and the Structural Design Reviewer should jointly establish the frequency and timing of Structural Design Reviewer review milestones, and the degree to which the Engineer of Record anticipates the design will be developed for each milestone.

The Structural Design Reviewer shall provide written comments to the Engineer of Record, and the Engineer of Record shall prepare written responses thereto. The Structural Design Reviewer shall maintain a log that summarizes Structural Design Reviewer comments, Engineer of Record responses to comments, and resolution of comments. The Structural Design Reviewer shall make the log available to the Engineer of Record as requested. The Structural Design Reviewer may also issue interim reports as appropriate relative to the scope and project requirements. At the conclusion of the review the Structural Design Reviewer shall submit to the Director a written report that references the scope of the review, includes the comment log and supporting documents, and indicates the professional opinions of the Structural Design Reviewer regarding the design's general conformance to the requirements and guidelines in this bulletin.

Commentary:: None of the reports or documents from the Structural Design Reviewer are Construction Documents. Under no circumstances should letters or other documents from the Structural Design Reviewer be put into the Engineer of Record's drawings or reproduced in any other way that makes Structural Design Reviewer documents appear to be part of the Construction Contract Documents. The Engineer of Record is solely responsible for the Construction Contract Documents. Documents from the Structural Design Reviewer will be retained as part of the Department of Building Inspection's project files.

#### 5. DISPUTE RESOLUTION

The Engineer of Record and the Structural Design Reviewer shall work in a collegial manner, as independent and reasonable professionals. The Structural Design Reviewer shall prepare comments in a respectful manner and shall make reasonable requests of the Engineer of Record for additional analyses or backup information. The Engineer of Record shall address the Structural Design Reviewer comments cordially and respond directly and clearly.

The Engineer of Record and the Structural Design Reviewer shall attempt to develop a consensus on each issue raised by the Structural Design Reviewer. If the Engineer of Record and the Structural Design Reviewer are unable to resolve particular comments, the Structural Design Reviewer shall report the impasse to the Director.

The Director, as Building Official, shall make final decisions concerning all permits. The Director, should the need arise, may address differences of opinion between the Engineer of Record and the Structural Design Reviewer in whatever method he deems appropriate. The Director also may engage additional outside experts to assist in issue resolution.

Originally signed by:

Isam Hasenin, P.E., C.B.O., Director Department of Building Inspection

Approved by the Building Inspection Commission on March 19, 2008

#### ADMINISTRATIVE BULLETIN

NO. AB-083

DATE : March 25, 2008 (Updated 01/01/14 for code references)

**SUBJECT**: Permit Processing and Issuance

TITLE : Requirements and Guidelines for the Seismic Design of New Tall Buildings using Non-

**Prescriptive Seismic-Design Procedures** 

**PURPOSE**: The purpose of this Administrative Bulletin is to present requirements and guidelines for the seismic structural design and submittal documents for building permits for new tall buildings

in San Francisco that use non-prescriptive seismic design procedures.

**REFERENCES**: 2013 San Francisco Building Code, Section 104A.2.8 Alternate materials, design and methods of construction

SEAONC, 2007, Recommended Administrative Bulletin on the Seismic Design & Review of Tall Buildings Using Non-Prescriptive Procedures, prepared by Structural Engineers Association of Northern California (SEAONC) AB-083 Tall Buildings Task Group

ASCE, 2011, Minimum Design Loads for Buildings and Other Structures (ASCE/SEI 7-10, Prepared by the Structural Engineering Institute of the American Society of Civil Engineers

2003 NEHRP Recommended Provisions For New Buildings And Other Structures Part 1: Provisions and Part 2: Commentary (FEMA 450)

SEAONC, 1999, Contractual Provisions to Address the Engineer's Liability when Using Performance-Based Seismic Design, Structural Engineers Association of Northern California

SEAOC, 2001, "Seismology Committee Background and Position Regarding 1997 UBCEq. 30-7 and Drift," Structural Engineers Association of California

(http://www.seaoc.org/seismpdfs/UBC/30 7.pdf)

#### DISCUSSION

#### 1. SCOPE

This bulletin presents requirements and guidelines for seismic structural design and submittal documents for building permit for new tall buildings in San Francisco that use non-prescriptive seismic design procedures.

Commentary: It is intended that buildings designed to the requirements and guidelines of this bulletin will have seismic performance at least equivalent to that intended of code-prescriptive seismic designs, consistent with the San Francisco Building Code sections indicated below. To demonstrate that a building design is capable of providing code equivalent seismic performance, a three-step procedure shall be performed as specified in Section 4 of this Administrative Bulletin. Intended code seismic performance can be found in the commentary of FEMA 450.

This bulletin intentionally contains both requirements, which are stated in mandatory language (e.g., "shall") and guidelines, which use non-mandatory language.

This bulletin is not written to cover essential facilities.

For the purposes of this Administrative Bulletin, a non-prescriptive seismic design is one that takes exception to one or more of the prescriptive requirements of the San Francisco Building Code and Chapter 12 of ASCE/SEI 7-05 and the standards referenced therein, by invoking San Francisco Building Code, Section 104A.2.8, which allows alternative materials and methods of construction as approved by the Building Official.

For the purposes of this bulletin, tall buildings are defined as those with *hn* greater than 160 feet above average adjacent ground surface.

The height, hn is defined in the San Francisco Building Code as the height of Level n above the average level of the ground surface adjacent to the structure. Level n is permitted to be taken as the roof of the structure, excluding mechanical penthouses and other projections above the roof whose mass is small compared with the mass of the roof.

Procedures other than those presented herein may be acceptable pursuant to the approval of the Director of the Department of Building Inspection.

**Commentary**: ASCE/SEI 7-10 Sections that discuss non-prescriptive or "alternative" seismic design procedures are reproduced below:

- 11.1.4 Alternate Materials and Methods of Construction. Alternate materials and methods of construction to those prescribed in the seismic requirements of this standard shall not be used unless approved by the authority having jurisdiction. Substantiating evidence shall be submitted demonstrating that the proposed alternate, for the purpose intended, will be at least equal in strength, durability, and seismic resistance.
- **12.1.1 Basic Requirements.** ... An approved alternative procedure shall not be used to establish the seismic forces and their distribution unless the corresponding internal forces and deformations in the members are determined using a model consistent with the procedure adopted.

San Francisco Building Code sections that discuss non-prescriptive or "alternative" seismic design procedures are reproduced below:

104A.2.8 Alternate materials, design and methods of construction. The provisions of this code are not intended to prevent the use of any material, alternate design or method of construction not specifically prescribed by this code, provided any alternate has been approved and its use authorized by the building official.

The building official may approve any such alternate, provided the building official finds that the proposed design is satisfactory and complies with the provisions of this code and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in suitability, strength, effectiveness, fire resistance, durability, safety and sanitation.

The building official shall require that sufficient evidence or proof be submitted to substantiate any claims that may be made regarding its use. The details of any action granting approval of an alternate shall be recorded and entered in the files of the code enforcement agency.

**1604.4** Analysis. Any system or method of construction to be used shall be based on a rational analysis in accordance with well-established principles of mechanics. Such analysis shall result in a system that provides a complete load path capable of transferring all loads and forces from their point of origin to the load-resisting elements.

### 2. STRUCTURAL DESIGN REVIEW

Structural Design Review shall be in accordance with AB-082. At the conclusion of the review, the Structural Design Reviewer shall provide a written statement that, in their professional opinion, the building elements under their review are equivalent in strength, durability, and seismic resistance of the building to those of a building designed according to the prescriptive provisions of the San Francisco Building Code.

Page 83-2 1/1/2014

## 3. SUBMITTAL REQUIREMENTS

Project submittal documents shall be in accordance with the San Francisco Building Code and Department of Building Inspection interpretations, Administrative Bulletins, and policies. In addition, documents relevant to the Structural Design Review shall be submitted by the Engineer of Record to the Director and to the Structural Design Reviewer.

As early as practicable, the Engineer of Record shall submit to the Director an initial Seismic Design Criteria along with a description and initial drawings of the structure. The Seismic Design Criteria shall be consistent with the requirements of this bulletin, and shall be updated to incorporate issues resolved during the Structural Design Review process.

The Seismic Design Criteria shall describe the proposed building and structural system, proposed analysis methodology, and acceptance criteria. The Seismic Design Criteria shall include any proposed exceptions to the prescriptive provisions of the San Francisco Building Code, modeling parameters, material properties, drift limits, element force capacities and deformation capacities. The Seismic Design Criteria shall identify all exceptions to the San Francisco Building Code prescriptive requirements that the Engineer of Record proposes. The Seismic Design Criteria shall be subject to review by the Structural Design Reviewer and approval by the Director. A summary of the Engineer of Record's final Seismic Design Criteria shall be included in the general notes of the structural drawings.

#### 4. SEISMIC DESIGN REQUIREMENTS

The Engineer of Record shall evaluate the structure at the levels of earthquake ground motion as indicated in the subsections below.

If nonlinear response is anticipated under any of the Maximum Considered Earthquake (MCE) ground motions specified in Section 4.3, the Engineer of Record shall apply capacity design principles and design the structure to have a suitable ductile yielding mechanism, or mechanisms, under nonlinear lateral deformation. The code-level analysis shall be used to determine the required strength of the yielding actions. The Engineer of Record shall include in the Seismic Design Criteria all assumptions and factors used in the application of capacity design principles.

Commentary: The purpose of each level of seismic evaluation is as follows:

The code-level evaluation of Section 4.1 is used to identify the exceptions being taken to the prescriptive requirements of the San Francisco Building Code and to define the minimum required strength and stiffness for earthquake resistance. Minimum strength is defined according to San Francisco Building Code minimum base shear equations, with a response modification coefficient R, proposed by the Engineer of Record, reviewed by the Structural Design Reviewer, and approved by the Director Minimum stiffness is defined by requiring the design to meet San Francisco Building Codespecified drift limits, using traditional assumptions for effective stiffness. Providing a non-prescriptive seismic design with minimum strength and stiffness comparable to code-prescriptive designs helps produce seismic performance at least equivalent to the code. Minimizing the number of exceptions to prescriptive requirements also helps achieve this aim.

As indicated in Section 4.2, a service-level evaluation is required by this bulletin to demonstrate acceptable seismic performance for moderate earthquakes.

The MCE-level evaluation of Section 4.3 is intended to verify that the structure has an acceptably low probability of collapse under severe earthquake ground motions. The evaluation uses nonlinear response-history analysis to demonstrate an acceptable mechanism of nonlinear lateral deformation and to determine the maximum forces to be considered for structural elements and actions designed to remain elastic.

#### 4.1 Code-Level Evaluation

The seismic structural design shall be performed in accordance with the prescriptive provisions of the San Francisco Building Code, except for those provisions specifically identified by the Engineer of Record in the Seismic Design Criteria as Code Exceptions.

1/1/2014 Page 83-3

**Commentary:** Code exceptions that have typically been taken for non-prescriptive designs of tall buildings in high seismic design categories include exceeding the height limitations of ASCE/SEI 7-10 Table 12.2.1. Other exceptions, including provisions related to R, ,  $\theta$ , limitations on T, and various detailing requirements, may be considered at the discretion of the Director. The Engineer of Record is required to justify all exceptions to prescriptive code provisions. The scope of structural design review shall include all proposed code exceptions.

The lower limit of ASCE/SEI 7-10 Eq. 12.8-5 and 12.8-6 for the calculation of the Seismic Response Coefficient applies to the scaling process of ASCE/SEI 7-05 Section 12.9. The value of *R* used shall be indicated in the SeismicDesign Criteria, and shall not be greater than 8.5.

The Engineer of Record shall demonstrate that the structure meets the story drift ratio limitations of the San Francisco Building Code using a code-level response-spectrum analysis and the following requirements:

- a) The design lateral forces used to determine the calculated drift need not include the minimum base shear limitation of ASCE/SEI 7-10 eq. 12.8-5 and 12.8-6.
  - b) Stiffness properties of non-prestressed concrete elements shall not exceed 0.5 times gross-section properties.
- c) Foundation flexibility shall be considered, using recommendations provided by the Geotechnical Engineerof Record that are defined in the Seismic Design Criteria.
  - d) The analysis shall account for P-delta effects.

Commentary: ASCE/SEI 7-10 requires the consideration of the minimum base shear of Eq. 12.8-5 and 12.8-6 for checking design story drifts relative to allowable story drifts. However, the consensus of SEAONC's AB-083Task Group for this Administrative Bulletin, approved by the SEAONC Board, is that UBC Formula 30-7 (equivalent to ASCE/SEI 7-10 Eq. 12.8-6) need not be applied to the check of drift limits for tall buildings designed according to this bulletin, because the MCE-level Evaluation of Section 4.3 includes a check of drift for site-specific ground motions. Such ground motions are required to take account of near-fault and directivity effects. The consensus of the task group is that this is an appropriate and more explicit way of addressing the intended purpose of applying Formula 30-7 to the check of drift limits.

Actual concrete stiffness properties may vary significantly from the value of 0.5 times gross-section properties referenced for the code-level check of story drift limits. This assumption is specified to provide a consistent requirement for minimum building stiffness. This requirement is intended to lead to earthquake serviceability performance related to story drift that is at least comparable to that expected of prescriptively-designed tall buildings designed to the San Francisco Building Code.

For the deformation compatibility evaluation of critical non-structural elements, such as exterior curtain wall and cladding systems and egress stairways, the drift ratio demand shall be calculated using the minimum base shear limitations of ASCE/SEI 7-10 Eq. 12.8-5 and 12.8-6. In lieu of this requirement, these critical non-structural elements may be designed for drift ratios at the MCE-level.

#### 4.2 Service-Level Evaluation

A service-level evaluation of the primary structural system is required to demonstrate acceptable, essentially elastic seismic performance at the service-level ground motion.

**Commentary**: To ensure code-equivalent seismic performance, the Director is requiring a service-level evaluation for new tall buildings utilizing non-prescriptive design procedures.

There are circumstances where there is a reason to believe that the serviceability performance of the design wouldbe worse than that anticipated for a code-prescriptive design. Some of these circumstances have been identified as follows:

a) Where the Engineer of Record has taken any exception to code-prescriptive requirements for non-structural elements (ASCE/SEI 7-10, Chapter 13)

Page 83-4 1/1/2014

- b) Where the stiffness representation of any structural element in the code-level evaluation is significantly less than the effective linear-elastic stiffness described in applicable research
- c) For a structure that exhibits disproportionably large drift or accelerations for ground motions less than the San Francisco Building Code Design Basis Ground Motion (not reduced by R).

While this bulletin does not require checking all non-structural elements at the service-level evaluation, it is expected that the building cladding will remain undamaged and that egress from the building will not be impeded when the building is subjected to the service-level ground motion.

For the purposes of this bulletin, the service-level ground motion shall be that having a 43-year mean return period (50% probability of exceedance in 30 years).

Structural models used in the service-level evaluation shall incorporate realistic estimates of stiffness and damping considering the anticipated levels of excitation and damage. The evaluation shall demonstrate that the elements being evaluated exhibit serviceable behavior.

Commentary: While essentially elastic performance is required in the service-level ground motion, it is not the intent of this bulletin to require that a structure remain fully linear and elastic. It is permissible for the analysis to indicate minor yielding of ductile elements of the primary structural system, provided such results do not suggest appreciable permanent deformation in the elements, strength degradation, or significant damage to the elements requiring more than minor repair. It is permissible for the analysis to indicate minor and repairable cracking of concrete elements.

Where numerical analysis is used to demonstrate serviceability, the analysis model should represent element behavior that is reasonably consistent with the expected performance of the elements. In typical cases it may be suitable to use a linear response spectrum analysis, with appropriate stiffness and damping, and with the earthquake demands represented by a linear response spectrum corresponding to the service-level ground motion. Where response history analysis is used, the selection and scaling of ground motion time series should comply with the requirements of ASCE/SEI 7-10, Section 16.1.3, with the service-level response spectrum used instead of the design basis earthquake response spectrum, and with the design demand represented by the mean of calculated responses for not less than seven appropriately selected and scaled time series.

As expressed by SEAONC [1999], it should be understood "that the current state of knowledge and available technology is such that the design profession's ability to accurately predict the earthquake performance of a specific building is limited and subject to a number of uncertainties." Actual performance may differ from intended performance.

## 4.3 Maximum Considered Earthquake-Level Evaluation

Ground Motion: The ground motion representation for this evaluation shall be the Maximum Considered Earthquake(MCE) as defined in ASCE/SEI 7-10, Chapter 21.

A suite of not less than seven pairs of appropriate horizontal ground motion time series shall be used in the analyses. The selection and scaling of these ground motion time series shall comply with the requirements of ASCE/SEI 7-10, Chapter 16, with the following modifications:

- a) The MCE response spectrum shall be the basis for ground motion time series scaling instead of the design response spectrum.
  - b) Either amplitude-scaling procedures or spectrum-matching procedures may be used.
- c) Where applicable, an appropriate number of the ground motion time series shall include near fault and directivity effects such as velocity pulses producing relatively large spectral ordinates at relatively long periods.

Commentary: The procedures for selecting and scaling ground motion records, as presented here, represent the current state of practice. The procedures are written to retain some flexibility so that engineering judgment can be used to identify the best approach considering the unique characteristics of the site and the building.

Selection and scaling of earthquake ground motion records for design purposes is a subject of much current research. The Engineer of Record may wish to consider alternative approaches recently proposed; however, some of the proposed approaches have not been adequately tested on tall buildings so their adoption should only be considered with caution. Aspects of particular concern include the long vibration period of many tall buildings and the contributions of multiple vibration "modes" to key response quantities.

At near-fault sites, the average fault-normal response spectrum usually is larger than the average fault-parallel response spectrum due to the presence of a rupture directivity pulse in the fault-normal component of the ground motion. It is important to include in the suite of ground motions an appropriate number of motions that include near-fault and directivity effects so that design drift demands are appropriately determined, especially considering that Section 4.1 permits the design to be exempt from applying Equations 12.8-5 and 12.8-6 to drift calculations. If spectral matching is used, individual ground motion components should account for the distinction between fault-normal and fault-parallel hazard.

Mathematical Model: The three-dimensional mathematical analysis model of the structure shall conform to ASCE/SEI 7-10 Section 12.7.3.

The analyses shall consider the interaction of all structural and non-structural elements that materially affect the linear and nonlinear response of the structure to earthquake motions, including elements not designated as part of the lateral-force-resisting system in the code-level analysis (Section 4.1).

**Commentary**: This requires explicit modeling of those parts of the structural and non-structural systems that affect the dynamic response of the building. In addition, the effect of building response on all materially affected parts of the building must be evaluated.

The stiffness properties of reinforced concrete shall consider the effects of cracking and other phenomena on initial stiffness.

**Commentary**: In addition to cracking, effective stiffness can be affected by other phenomena. These include bond slip, yield penetration, tension-shift associated with shear cracking, panel zone deformations, and other effects.

The effective initial stiffness of steel elements embedded in concrete shall include the effect of the embedded zone. For steel moment frame systems, the contribution of panel zone (beam-column joint) deformations shall be included.

The Engineer of Record shall identify any structural elements for which demands for any of the response-history runs are within a range for which significant strength degradation could occur, and shall demonstrate that these effects are appropriately considered in the dynamic analysis.

Commentary: For typical situations, element strength degradation of more than 20% of peak strength should be considered significant.

P- effects that include all the building dead load shall be included explicitly in the nonlinear response history analyses.

Documentation submitted for Structural Design Reviewer review shall clearly identify which elements are modeled linearly and which elements are modeled nonlinearly. For elements that are modeled as nonlinear elements, submitted documentation shall include suitable laboratory test results or analyses that justify the hysteretic properties represented in the model.

The properties of elements in the analysis model shall be determined considering earthquake plus expected gravity loads. In the absence of alternative information, gravity load shall be based on the load combination 1.0D + Lexp, where D is the service dead load and Lexp is the expected service live load.

**Commentary**: In typical cases it will be sufficient to take Lexp = 0.2L, where L is the code-prescribed live loadwithout live load reduction.

Page 83-6

The foundation strength and stiffness contribution to the building seismic response shall be represented in the model. The foundation strength and stiffness characterization shall be consistent with the strength and stiffness properties of the soils at the site, considering both strain rate effects and soil deformation magnitude.

Analysis Procedure: Three-dimensional nonlinear response history (NLRH) analyses of the structure shall be performed. Inclusion of accidental torsion is not required. When the ground motion components represent site-specific fault-normal ground motions and fault-parallel ground motions, the components shall be applied to the three-dimensional mathematical analysis model according to the orientation of the fault with respect to the building. When the ground motion components represent random orientations, the components shall be applied to the model at orientation angles that are selected randomly; individual ground motion pairs need not be applied in multiple orientations.

Commentary: Three-dimensional analyses are required to represent the inherent torsional response of the building to earthquake ground shaking. This is done by including in the NLRH model the actual locations and distribution of the building mass, stiffness, and strength. Accidental torsion is not required to be included in the NLRH analyses. (Accidental torsion is required for the code-level analysis of Section 4.1.)

The Engineer of Record shall report how damping effects are included in the NLRH analyses. The equivalent viscous damping level shall not exceed 5%, unless adequately substantiated by the Engineer of Record.

**Commentary**: The effects of damping in an analysis depend on the type of damping model implemented. Some models may over-damp higher modes or have other undesirable effects.

For each horizontal ground motion pair, the structure shall be evaluated for the following load combination:

$$1.0D + Lexp + 1.0E$$

Alternative load combinations, if used, shall be adequately substantiated by the Engineer of Record.

Demands for ductile actions shall be taken not less than the mean value obtained from the NLRH. Demands for low-ductility actions (e.g., axial and shear response of columns and shear response of walls) shall consider the dispersion of the values obtained from the NLRH.

Commentary: In typical cases the demand for low-ductility actions can be defined as the mean plus one standard deviation of the values obtained from the NLRH. Procedures for selecting and scaling ground motions, and for defining the demands for low-ductility actions, should be defined and agreed to early in the review process.

Acceptance Criteria: Calculated force and deformation demands on all elements required to resist lateral and gravityloads shall be checked to ensure they do not exceed element force and deformation capacities. This requirement applies to those elements designated as part of the lateral-force-resisting system in the code-level analysis (Section 4.1), as well as those elements not designated as part of the lateral-force-resisting system in the code-level analysis but deemed to be materially affected.

Commentary: Elements not designated as part of the lateral-force-resisting system in the code-level analysis (gravity systems) may be subjected to substantial deformations and forces, including axial forces accumulated over many stories, as they interact with the primary lateral-force-resisting system. Non-structural elements such as cladding are evaluated according to code requirements. This bulletin does not require checking non-structural elements at the MCE level.

The Engineer of Record shall identify the structural elements or actions that are designed for nonlinear seismic response. All other elements and actions shall be demonstrated by analysis to remain essentially elastic.

Commentary: Essentially elastic response may be assumed for elements when force demands are less than design strengths. Design strengths for non-ductile behaviors (e.g., shear and compression) of these essentially elastic elements are defined as nominal strengths, based on specified material properties, multiplied by strength reduction factors as prescribed in the SFBC. Design strengths for ductile behaviors of these essentially elastic elements are defined as nominal strengths, based on expected material properties, multiplied by  $\emptyset=1.0$ . Alternative approaches to demonstrating essentially elastic response may be acceptable where appropriately substantiated by the Engineer of Record.

For structural elements or actions that are designed for nonlinear seismic response, the Engineer of Record shall evaluate the adequacy of individual elements and their connections to withstand the deformation demands. Force and deformation capacities shall be based on applicable documents or representative test results, or shall be substantiated by analyses using expected material properties.

The average result, over the NLRH analyses, of peak story drift ratio shall not exceed 0.03 for any story.

All procedures and values shall be included in the Seismic Design Criteria and are subject to review by the Structural Design Reviewer and approval by the Director.

Originally signed by:

Isam Hasenin, P.E., C.B.O., Director Department of Building Inspection

Approved by the Building Inspection Commission on March 19, 2008

# OFFICE OF THE MAYOR SAN FRANCISCO



EDWIN M. LEE MAYOR

September 9, 2016

The Honorable Dianne Feinstein United States Senate 331 Hart Senate Office Building Washington, D.C. 20510

Dear Senator Feinstein:

Thank you for your letter regarding seismic safety of high-rise buildings in San Francisco. As you know, earthquake resilience has been a key priority of mine stretching back to my days as DPW Director and City Administrator.

You asked for more information about the Millennium Tower at 301 Mission Street. Specifically, the building permit approval process for this building commenced in 2002 under the 2001 California Building Code, and the Department of Building Inspection initiated a peer review process from a panel of experts, as they typically do for high-rise construction that employs a design-based approach. 301 Mission Street went through that process and was designed and constructed to the approved plans, building codes and standards in place at the time. That said, the Department of Building Inspection has suggested the Homeowners' Association make corrective actions to improve the joints, plumbing, and other operational parts of the building.

More broadly, you also expressed concern about the potential number of buildings in San Francisco that are not anchored to bedrock. Modern high rises typically employ a performance-based design to ensure that the building meets the structural requirements of the current code. To this end, the Department of Building Inspection has already enhanced and clarified their process for having skyscrapers peer-reviewed by a panel of experts prior to approval to begin construction.

As all Mayors of San Francisco know so deeply, earthquake preparedness is always a first priority, and we must strive for continual improvement. In my time as City Administrator and Mayor, I led and initiated my 30-year Earthquake Safety Implementation Plan (ESIP), a multipoint program to evaluate and retrofit seismically vulnerable buildings and to pass new laws to make our City more resilient. I'm proud of the progress my Administration has made thus far which includes the retrofit of more than 5,000 dangerous soft story buildings by 2020, evaluating all of the City's private schools for earthquake risks by 2017 and tougher regulations requiring façade inspections of every building in San Francisco more than five stories in height. We have also successfully passed \$812 million in Earthquake Safety & Emergency Response general obligation bonds.

To address the specific issue in your letter about high-rise resiliency, I am requesting the Department of Building Inspection's Code Advisory Structural Subcommittee immediately

review ground failure mitigation measures for buildings in geologically hazardous areas and make recommendations to the Building Inspection Commission.

As a further result of your writing, I have directed the Department of Building Inspection and the Office of Resilience & Recovery to amend our 30-year ESIP plan to expedite the safety of new and existing high-rise buildings. Specifically, I have ordered immediate inclusion into this year's work plan of:

- Reviewing ground failure mitigation measures for buildings in geologically hazardous areas (ESIP Task B.6.c)
- Mandatory earthquake evaluations at the time of sale (ESIP Tasks A.2.a and B.2.c)
- Mandatory evaluation and retrofit of buildings with more than 300 occupants (ESIP Task C.2.c)
- Mandatory evaluation and retrofit of other low performing buildings (ESIP Task C.2.e)

Previously, several of these tasks were spread over the next 25 years. As a result of your letter, and my direction to staff, we're starting this work right away.

I appreciate your attention to this issue, and I always welcome your continued guidance on protecting San Francisco.

Sincerely.

Edwin M./Lee/

Mayor, City & County of San Francisco

# 2016-2017 Earthquake Safety Implementation Committee (ESIC) Tasks

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From:

Otellini, Patrick (ADM)

Sent: To:

Wednesday, September 21, 2016 11:16 AM

Cc:

Peskin, Aaron (BOS); Angulo, Sunny (BOS)

Major, Erica (BOS); Calvillo, Angela (BOS); Elliott, Jason (MYR); Elliott, Nicole (MYR); Kelly,

Naomi (ADM)

Subject:

RE: Letter of Inquiry in advance of Thursday's hearing

Attachments:

160909 MEL Feinstein Letter.pdf; 2016.2017 ESIC Tasks.pdf

Good morning Supervisor Peskin,

In reference to your letter and in anticipation of tomorrow's hearing I am happy to provide this response to your request regarding the building located at 301 Mission Street. Our office has not issued any official responses in the form of letters, emails, memorandums or bulletins in reference to this project. We provided guidance to the Mayor's office in responding to Senator Feinstein's letter by advising on the following items from the City's 30 Year Earthquake Safety Implementation Program that could be accelerated and added to our current policy agenda for the coming year:

- Reviewing ground failure mitigation measures for buildings in geologically hazardous areas (ESIP Task B.6.c) This task is already underway by the Department of Building Inspection and they will be directing their Structural Subcommittee of the Code Advisory Committee to review this issue and make recommendations to the Building Inspection Commission per the Mayor's letter to Senator Feinstein (Mayor's letter attached).
- Mandatory earthquake evaluations at the time of sale (ESIP Tasks A.2.a and B.2.c)
- Mandatory evaluation and retrofit of buildings with more than 300 occupants (ESIP Task C.2.c)
- Mandatory evaluation and retrofit of other low performing buildings (ESIP Task C.2.e) - These three existing tasks from the City's 30 Year ESIP plan have been included in this year's legislative work plan. The second attached file shows the existing identified policy initiatives from the larger 30 year timeline that we are actively working on now through the Earthquake Safety Implementation Committee.

Your letter also mentioned the work I do as the City's Chief Resilience Officer. In addition to overseeing the City's 30 year ESIP plan, our office also recently released Resilient San Francisco – Stogner Today, Stronger Tomorrow which is a strategy on building greater resilience in San Francisco and includes much of our work on earthquake safety but also brings the issues of climate change and sea level rise and other hazards that an uncertain future will most certainly bring to our City. I look forward to the opportunity to brief you and your staff on this strategy as well as review the status and development of our current programs such as the Mandatory Soft Story Retrofit Program, the Private School Earthquake Evaluation Program and our new Façade Maintenance Program.

Thank you and please don't hesitate to contact myself or my staff with any additional questions.

Best,

#### Patrick Otellini

Chief Resilience Officer Director, Office of Resilience and Recovery City and County of San Francisco Office of the City Administrator

1 Dr. Carlton B. Goodlett Place City Hall, Room 362 San Francisco, CA 94102 Direct: (415) 554-5404 | E-Mail: Patrick.otellini@sfgov.org www.sfgov.org/orr

From: Peskin, Aaron (BOS)

Sent: Tuesday, September 20, 2016 7:09 PM

To: Otellini, Patrick (ADM) <patrick.otellini@sfgov.org>; Elliott, Nicole (MYR) <nicole.elliott@sfgov.org>

Cc: Calvillo, Angela (BOS) <angela.calvillo@sfgov.org>; Major, Erica (BOS) <erica.major@sfgov.org>; Angulo, Sunny (BOS)

<sunny.angulo@sfgov.org>

Subject: Letter of Inquiry in advance of Thursday's hearing

Mr. Otellini and Ms. Elliott:

Attached, please find a letter of inquiry in the furtherance of this Thursday's hearing objectives. Please transmit responses to me and my staff, Sunny Angulo, before Thursday. I look forward to your response.

Best,

Aaron

******

Aaron Peskin

District 3 Supervisor

415.554.7450 – VOICE

Aaron.Peskin@sfgov.org

From:

Elliott, Nicole (MYR)

Sent: To: Wednesday, September 21, 2016 11:20 AM Peskin, Aaron (BOS); Otellini, Patrick (ADM)

Cc:

Calvillo, Angela (BOS); Major, Erica (BOS); Angulo, Sunny (BOS)

Subject:

RE: Letter of Inquiry in advance of Thursday's hearing

Attachments:

8.10.16 Feinstein.pdf; 9.9.16 Lee.pdf; 9.14.16 Feinstein.pdf

Good afternoon Supervisor Peskin,

Please find the following letters attached:

- 1) August 10th letter from Senator Feinstein to Mayor Lee
- 2) September 9th letter from Mayor Lee to Senator Feinstein
- 3) September 14th letter from Senator Feinstein to Mayor Lee

Please feel free to be in touch if you have questions related to these letters.

Best,

Nicole

Nicole A. Elliott Director, Legislative & Government Affairs Office of Mayor Edwin M. Lee (415) 554-7940

From: Peskin, Aaron (BOS)

Sent: Tuesday, September 20, 2016 7:09 PM

To: Otellini, Patrick (ADM) <patrick.otellini@sfgov.org>; Elliott, Nicole (MYR) <nicole.elliott@sfgov.org>

Cc: Calvillo, Angela (BOS) <angela.calvillo@sfgov.org>; Major, Erica (BOS) <erica.major@sfgov.org>; Angulo, Sunny (BOS)

<sunny.angulo@sfgov.org>

Subject: Letter of Inquiry in advance of Thursday's hearing

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Best,

Aaron

********* Aaron Peskin

District 3 Supervisor 415.554.7450 – VOICE Aaron.Peskin@sfgov.org



SELECT COMMITTEE ON INTELLIGENCE - VICE CHAIRMAN COMMITTEE ON APPROPRIATIONS COMMITTEE ON THE JUDICIARY COMMITTEE ON RULES AND ADMINISTRATION

# United States Senate

http://feinstein.senate.gov

August 10, 2016

The Honorable Edwin Lee Mayor City Hall 1 Dr. Carlton B. Goodlett Place San Francisco, CA, 94102

# Dear Mayor Lee:

I have been reading with increasing alarm the recent stories about the Millennium Tower and its reported sinking and tilting. As you know, I have had great concern, generally, with the recent residential and commercial density increase in San Francisco, as well as concern about the City's preparedness for a large scale seismic event. Now, to add to that mix of concern, I am left wondering if the City's building code played any role in allowing this sinking and tilting to happen, and whether or not other approved buildings are suffering the same fate.

The fact most alarming to me is that the Millennium's engineers constructed the building only over a thick concrete slab, supported by piles roughly 80 feet into dense sand <u>as opposed to drilling piles into the bedrock 200 feet down</u>. While I was always under the impression that buildings needed to be anchored to bedrock, I have learned that there are numerous buildings throughout San Francisco (e.g. the Embarcadero buildings, AT&T Park, Moscone Center) that have used a similar type of foundation.

I met recently with Patrick Otellini, your Chief Resiliency Officer, who spoke at great length about the work you are leading to keep the City safe in the event of a large seismic event. Thank you for that work. However, I believe answering the

question of the seismic stability of these new high buildings, other such buildings currently in the construction or review phase, and whether or not they can sufficiently survive a large scale earthquake without being anchored into bedrock should become a top priority for you.

I suggest reaching out to leaders in the world of academia to solicit their guidance and input, as opposed to current geotechnical engineers currently practicing in the field in order to avoid any appearance of conflict of interest. Consider forming a "Mayoral Seismic Safety Advisory Committee," or other panel of independent experts who can advise you and the Department of Building Inspection thoroughly and independently. If I can be of any help to you in this endeavor, please know I am at your service.

Sincerely,

Dianne Feinstein

United States Senator

# OFFICE OF THE MAYOR SAN FRANCISCO



EDWIN M. LEE MAYOR

September 9, 2016

The Honorable Dianne Feinstein United States Senate 331 Hart Senate Office Building Washington, D.C. 20510

Dear Senator Feinstein:

Thank you for your letter regarding seismic safety of high-rise buildings in San Francisco. As you know, earthquake resilience has been a key priority of mine stretching back to my days as DPW Director and City Administrator.

You asked for more information about the Millennium Tower at 301 Mission Street. Specifically, the building permit approval process for this building commenced in 2002 under the 2001 California Building Code, and the Department of Building Inspection initiated a peer review process from a panel of experts, as they typically do for high-rise construction that employs a design-based approach. 301 Mission Street went through that process and was designed and constructed to the approved plans, building codes and standards in place at the time. That said, the Department of Building Inspection has suggested the Homeowners' Association make corrective actions to improve the joints, plumbing, and other operational parts of the building.

More broadly, you also expressed concern about the potential number of buildings in San Francisco that are not anchored to bedrock. Modern high rises typically employ a performance-based design to ensure that the building meets the structural requirements of the current code. To this end, the Department of Building Inspection has already enhanced and clarified their process for having skyscrapers peer-reviewed by a panel of experts prior to approval to begin construction.

As all Mayors of San Francisco know so deeply, earthquake preparedness is always a first priority, and we must strive for continual improvement. In my time as City Administrator and Mayor, I led and initiated my 30-year Earthquake Safety Implementation Plan (ESIP), a multipoint program to evaluate and retrofit seismically vulnerable buildings and to pass new laws to make our City more resilient. I'm proud of the progress my Administration has made thus far which includes the retrofit of more than 5,000 dangerous soft story buildings by 2020, evaluating all of the City's private schools for earthquake risks by 2017 and tougher regulations requiring façade inspections of every building in San Francisco more than five stories in height. We have also successfully passed \$812 million in Earthquake Safety & Emergency Response general obligation bonds.

To address the specific issue in your letter about high-rise resiliency, I am requesting the Department of Building Inspection's Code Advisory Structural Subcommittee immediately

review ground failure mitigation measures for buildings in geologically hazardous areas and make recommendations to the Building Inspection Commission.

As a further result of your writing, I have directed the Department of Building Inspection and the Office of Resilience & Recovery to amend our 30-year ESIP plan to expedite the safety of new and existing high-rise buildings. Specifically, I have ordered immediate inclusion into this year's work plan of:

- Reviewing ground failure mitigation measures for buildings in geologically hazardous areas (ESIP Task B.6.c)
- Mandatory earthquake evaluations at the time of sale (ESIP Tasks A.2.a and B.2.c)
- Mandatory evaluation and retrofit of buildings with more than 300 occupants (ESIP Task C.2.c)
- Mandatory evaluation and retrofit of other low performing buildings (ESIP Task C.2.e)

Previously, several of these tasks were spread over the next 25 years. As a result of your letter, and my direction to staff, we're starting this work right away.

I appreciate your attention to this issue, and I always welcome your continued guidance on protecting San Francisco.

Sincerely,

Edwin M./Lee/

Mayor, City & County of San Francisco



SELECT COMMITTEE ON INTELLIGENCE - VICE CHAIRMAN COMMITTEE ON APPROPRIATIONS COMMITTEE ON THE JUDICIARY COMMITTEE ON RULES AND ADMINISTRATION

# United States Senate

WASHINGTON, DC 20510-0504 http://feinstein.senate.gov September 14, 2016

Dear Mayor Lee:

Thank you for your September 9, 2016 response to my August 10, 2016 letter to you raising concerns about the reported "sinking and tilting" of the Millennium Tower. I am very encouraged by your response detailing your commitment to moving forward action items within the City's Earthquake Safety Implementation Plan for high rise buildings. Your letter makes clear you remain steadfast, as you have throughout your public service career, to ensuring the seismic safety of San Francisco — thank you!

Specifically to the Millennium Tower, I also appreciate your response summarizing the building permit approval process prior to the construction of the Tower. Moving forward, what role will the City play in addressing the continued "sinking and tilting" of the building? What role can you play as Mayor to ensure that all impacted City Departments stand at the ready to assist the developer, the homeowner's association, and other impacted parties, as they formulate a plan to fix the problem? Most importantly, what can you do to ensure the residents of San Francisco that its City government is on top of the issue?

As always, I am more than pleased to offer any assistance I can to the City of San Francisco.

Sincerely,

The Honorable Edwin Lee Mayor City Hall 1 Dr. Carlton B. Goodlett Place San Francisco, CA, 94102

#### Member, Board of Supervisors District 3



City and County of San Francisco

September 20, 2016

Patrick Otellini, Chief Resilience Officer Office of the City Administrator, Room 362

Nicole Elliott, Director of Legislative & Government Affairs Office of Mayor Edwin M. Lee, Room 200

Mr. Otellini and Ms. Elliott:

Thank you for making yourself available to participate in the hearing this Thursday, September 22, 2016 at 10:00am at the Government Audit and Oversight Committee (GAO).

I understand that you are the world's first Chief Resilience Officer, and I am eager to know more about your office and the specific work you have undertaken to address resiliency and recovery efforts here in San Francisco. I also understand that you have considerable experience after spending a decade in the private sector dealing with building code compliance issues, so I appreciate the guidance you have been giving the City on these issues since assuming your post.

The GAO committee members will be using the recent revelations around 301 Mission Street as a case study in the first of a series of hearings on buildings standards in seismic zones, and I am requesting your assistance in providing any and all letters, emails, memorandums or bulletins that you have submitted to city staff or drafted for the Mayor or any of his staff in your role as the City's resident expert as to the condition and seismic safety and sustainability of the 301 Mission Street project.

Ms. Elliott, the September 13, 2016 *SF Magazine* article "Millennium Tower Goes on Trial" includes a letter from Mayor Lee to Senator Dianne Feinstein dated September 9, 2016. Please provide any correspondence that triggered Mayor Lee's official response on behalf of the City.

Thank you both in advance for your help in facilitating this hearing by transmitting these documents in advance of this Thursday. Please feel free to contact my staff, Sunny Angulo, with further questions.

Best,

Aaron Peskin

#### Member, Board of Supervisors District 3



City and County of San Francisco

September 20, 2016

Tom C. Hui Department of Building Inspection, Director 1660 Mission Street, Sixth Floor San Francisco, CA 94103

Dear Director Hui:

Thank you for working to prepare for this Thursday's Government Audit and Oversight hearing. In addition to the questions we transmitted on September 12, 2016, please be advised of the following questions, as well:

- What other projects have been built on friction piles in the city? Out of those projects, which friction piles go into clay and which go into sand? Please provide a list for the hearing and indicate whether the buildings are constructed out of steel or concrete.
- Please provide an overview of the dewatering and drilling preparation work that happened at 301 Mission Street prior to 2010.
- How many permit expeditors were involved with the 301 Mission project over the course of its vetting and approval process?
- How many inspectors does the Department of Building Inspection (DBI) employ and how many are necessary to evaluate projects over 120 feet? How many inspectors were assigned to evaluate the seismic safety and structural soundness of 301 Mission Street?
- What is the relationship of Consolidation Engineering Laboratories (CEL) to the 301
  Mission Street project and any other projects since? What about Construction Testing
  Service (CTS) Inspection Company?
- Who signs off on Requests for Information from engineers within DBI typically? Who signed off on any Requests for Information on the 301 Mission Street project, as well as any inspection punch lists?
- Has the successful performance of tower buildings on pads in a seismic zone (particularly on poor quality soil deposits) been proven?

Thank you for your attention to these inquiries, and I look forward to the September 22 hearing.

Aaron Peskin

City Hall • 1 Dr. Carlton B. Goodlett Place • Room 244 • San Francisco, California 94102-4689 • (415) 554-7450 Fax (415) 554 - 7454 • TDD/TTY (415) 554-5227 • E-mail: aaron.peskin@sfgov.org

#### Member, Board of Supervisors District 3



City and County of San Francisco

September 12, 2016

Tom C. Hui
Department of Building Inspection, Director
1660 Mission Street, Sixth Floor
San Francisco, CA 94103
CC: Angela Calvillo, William Strawn; Lily Madjus

Dear Director Hui:

Thank you for copying me on the public records request regarding 301 Mission Street. After review of the documents, I have asked the Clerk of the Board to transmit this letter of inquiry in order to obtain further information and to give the Department of Building Inspection official notice that I am convening a special meeting of the Government Audit and Oversight Committee to hear File #160975 on Thursday, September 22, 2016 at 10:00am.

I request the following individuals to be present: William Strawn, Daniel Lowrey, Gary Ho and former staff and Acting Director Amy Lee.

The documents responsive to the NBC Investigative Unit's disclosure request seem woefully incomplete. Please identify what documents were not turned over and why.

Additional questions in advance of the September 22nd hearing:

- In 2005, geotechnical engineers, Treadwell & Rollo wrote that the project's structural engineer would determine the depth of the piles, yet there are no documents identifying this review or approval process. Please provide this written determination.
- The 2006 correspondence between the Department of Building Inspection and the lead at DeSimone Consulting Engineers focuses primarily on DBI concerns with the proposed BauGrid® reinforcement system installed at 301 Mission. All but one of of these 22 pages of documents deal with these prefabricated joints, which received review and approval by the structural review panel consisting of Mr. Hardip Pannu and Professor Jack Moehle. Oddly, the subject of the structural foundation was not covered in the correspondence, leading me to inquire whether or not there was peer review of this critical aspect of the project.
- What is the Department of Building Inspection's current policy on performance-based peer review of structural foundations for projects over 120 ft? Has this policy always been in place, or did it come about at a certain time? Why was it changed or created?
- Why does the Department of Building Inspection have an inquiry in 2009 regarding the larger than expected settlements of the high-rise and mid-rise buildings at 301 Mission, but no response included in its disclosure? Please provide the response from DeSimone Consulting Engineers.
- The DeSimone Consulting Engineers letter from February 2009 states that they do not expect differential settlement to occur. What was the Department's response to this

City Hall • 1 Dr. Carlton B. Goodlett Place • Room 244 • San Francisco, California 94102-4689 • (415) 554-7450 Fax (415) 554 - 7454 • TDD/TTY (415) 554-5227 • E-mail: aaron.peskin@sfgov.org

- assertion and was this the understanding when the Certificates of Occupancy were issued, that no differentiated settlement had been noticed to any oversight agency?
- In 2008 negotiations appear to have been ongoing to expedite life safety inspections in order to obtain a temporary occupancy for the 60 story residential high rise at 301 Mission. On what basis did the city feel it should expedite the issuance of temporary occupancy permits? Who was the permit expediter for the 301 Mission project?
- Why does the City have an unsigned report put together by an independent structural
  engineer, with no responses or follow-up from Department officials? The Draft
  Foundation Settlement investigation by Ronald Hamburger identifies a number of issues,
  including aggressive dewatering during construction (even before additional dewatering
  as a result of the Transbay project), as well as projected sinkage over the anticipated
  norm.
- As stated prior, the DeSimone Consulting Engineers 2009 report stipulated to no
  differential settlement but that marginal shift can be expected. Yet the Hamburger report
  later identified foundational cracking as a serious concern. Please explain this
  information and assessment gap. Whose responsibility is it to notify the City when new
  verifiable concerns are flagged or found to be substantive? Did the Hamburger report
  cause the City concern and are there any additional geotechnical structural reviews that
  have additional information warranting analysis that we have not been made aware of?
- According to the Hamburger report, the pile drives were built into mud clay *not* dense sand. Does this sediment create enough "friction" for friction piles to maintain their depth and stability and not sink? Was this evaluated before approval?
- Please also submit a complete list in advance of the hearing of projects within the
  waterfront, Transbay and Rincon Hill neighborhood plan areas that have opted to drill
  down to bedrock and those that have not, along with their height and whether they
  utilized performance-based design with peer review.
- Please provide a comparison of the structural analysis and approval standards required in Section 1701 of the San Francisco Building Code, the California Uniform Building Code and the federal requirements, including whether peer review of project foundations is required or encouraged as a best practice.
- What are the implications of the existing aggravated lean at 301 Mission Street on the seismic sustainability of the adjacent Transbay project and what steps is the City undertaking to ensure we protect our investment in this public project, given the new information?
- How many Certificates of Occupancy has the Department of Building Inspection issued since 301 Mission Street in the Transbay and Rincon neighborhoods?
- What steps is the Department undertaking to remediate the issues that have been uncovered at 301 Mission and the potential projects in the surrounding neighborhood? What recommendations can you offer that we must pursue immediately?

Please work with my staff to transmit this information in advance of the September 22 hearing and be prepared to discuss it as a part of our collective efforts to ensure the appropriate standards for our city-approved projects moving forward.

Thank you for your cooperation.

Best.

Aaron Peskin

#### Millennium Litigation Group

930 Montgomery Street, Suite 600 San Francisco, CA 94133

Tel: (415) 433-3475 Fax: (415) 781-8030

www.millenniumlitigation.com

Re: Item 160975, Special Meeting September 22, Government Audit and Oversight Committee

We represent the homeowners of the Millennium Tower in a Class Action - Superior Court Of The State of California City and County Of San Francisco, case number: Ct CGC -16-553574. For more information you may see <a href="https://www.Millenniumlitigation.com">www.Millenniumlitigation.com</a>

We thank the Government Audit and Oversight Committee, and particularly Supervisor Peskin, for the good work they are doing to probe the background of 301 Mission, and better understand the challenges of erecting high-rise, and skyscraper structures on precarious soil conditions in San Francisco. Their concerns to establish whether there was political pressure, or corruption involved in the approvals is commendable. While it is very important to understand and learn from the history of this building, and what may have gone wrong along the way, it is far, far more important to fully understand what public safety issues are posed by its present condition, and how it may further be detrimentally impacted by future causes.

As the various stakeholders position their interests to pursue litigation, they have each retained experts to opine on what the causes of the sinking and tilting may be. Each party and their experts, will for obvious reasons, spin, and nuance the opinions to advance their ultimate agenda, laying blame at the feet of others. Additionally, the various experts' opinions will not be made known until years from now when depositions will be taken before trial. During the course of litigation, the investigation results and conclusions, which are considered attorney work product, will be shielded from public scrutiny, and even from the homeowners by their own HOA experts. The various stakeholders have financial interests in assuaging the homeowners and the city, with opinions that the building is currently safe. However, such opinions must be viewed with suspicion. There currently is no independent, unbiased review of the life safety condition of Millennium Tower, and it is unlikely with pending complex litigation that there will be any such reliable independent, unbiased opinion in the near future.

It is without dispute that the Millennium Tower skyscraper currently stands in a compromised state, as it continues to sink and lean. There is very serious life safety concern by all, for the homeowners, the other buildings in the vicinity (including the Transbay Terminal), and the citizens of San Francisco. The failure of the Millennium Tower could potentially cause catastrophic damage to property, and life, unlike anything this city has previously experienced.

There are allegations that the foundation was improperly designed, and/or has been adversely impacted by changes in the water table brought about by construction activities. There has been no independent investigation to date, to determine how much of a life safety hazard this massive skyscraper is currently posing, or may cause in the future. Many factors may have the potential to turn this magnificent structure, the crown jewel of the Transbay Terminal, into an instrument of mass destruction. Earthquakes, changes in the water table, either man made or through natural causes such as the rising sea level, or a prolonged drought in California, are just a few obvious factors to investigate and consider. This building may be totally safe for a long time in the future, or may be a ticking time bomb, resulting in a catastrophe of epic proportions. It is critical that the City and County of San Francisco act immediately to protect the homeowners, and the public. A complete independent investigation into the current and future public safety condition of the building must be implemented immediately.

The appropriate agencies of the San Francisco government, who have the power to do so, should immediately implement a full investigation by well qualified, unbiased experts, under their public supervision, who owe no loyalty to any of the stakeholders in this conflict. Such work product and findings should be transparent and made public to avoid any bias and maintain integrity.

We hope and trust that the Honorable Mayor, Board of Supervisors, Senator Diane Feinstein who has expressed interest, and appropriate city officials, will agree that such an investigation is urgently needed, and will take immediate steps to bring it about.

Sincerely,

Millennium Litigation Group

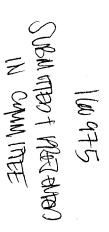
www.millinniumlitigation.com Mark M. Garay, Esq. Law Offices Of Mark M. Garay

## SFPUC Batch Discharge Program

Tomio Takeshita

Manager of the SFPUC Pretreatment Program

January 12, 2017



## Regulatory Requirement

 Environmental Protection Agency regulations require San Francisco to have a Pretreatment Program

San Francisco Public Works Code - Article 4.1
 (Sewer Use Ordinance) requires that we regulate all discharges into the sewage system

## San Francisco Public Works Code: Article 4.1

- Article 4.1 approved in 1992.
- Purpose of Article 4.1 and Pretreatment Program:
  - Protect human health, the environment, the sewage system, and wastewater treatment plants
  - Prevent the discharge of pollutants into sewage system that would:
    - obstruct or damage the system;
    - interfere with, inhibit or disrupt treatment facilities;
    - harm or threaten to harm human health or the environment; or
    - contribute to violations of regulatory requirements imposed on the City.
- Dischargers shall pay sewer service charges.

# Batch Wastewater Discharge Permit Program

- The purpose of the permit program is to protect our wastewater infrastructure by regulating the quality and quantity of dischargers.
- All periodic discharges to the sewage system must obtain a Batch Wastewater Discharge Permit.
- Federal regulatory requirement of EPA that SFPUC regulate periodic discharges.

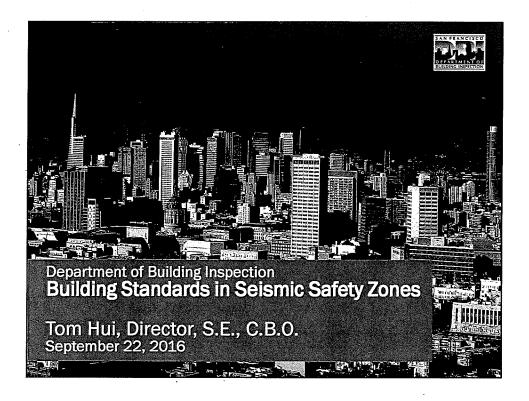
## Who Must Comply

- Any activity that generates periodic discharges to the sewage system:
  - –Construction sites;
  - Well water testing and pumping;
  - -Auxiliary water supply testing; and
  - Any other activity that generates nonroutine discharges.

## SFPUC Batch Discharge Permit Requirements

- May require discharger to install water meters to report quantity discharged.
- May require discharger to sample water and submit water quality reports.
- May require the removal of pollutants prior to discharge; pretreatment.
- Dischargers shall pay sewer service charges.

## Questions?



#### **Role of DBI in Construction Process**



- Review plans and designs developed by architects and engineers hired by project sponsor to verify compliance with code in force at time plans are submitted for review.
- Conduct site inspections to verify that construction is in accordance with approved plans.
- Address code compliance issues raised through complaints submitted by San Francisco residents.

### 301 Mission - General Project Information



Permit Application	200210239696
Project Description	Erect 58-story 420 residential units
Type of Construction	Type I (Concrete)
Project Valuation	\$175M
Foundation Type	Mat slab with 900+ 14 inch square piles driven down 66-91 feet
Building Code In Effect	2001 CA Building Code

## 301 Mission Permit Issuance & CFC Timeline



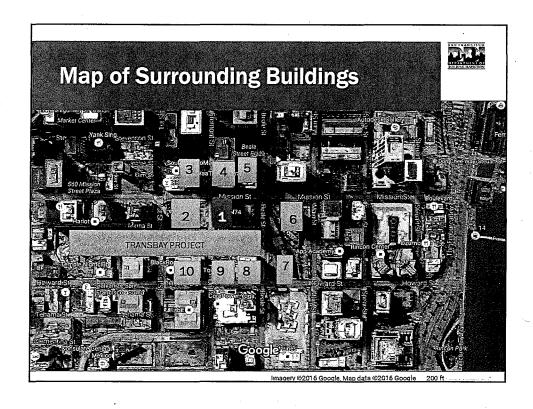
Permit Filed October 2002

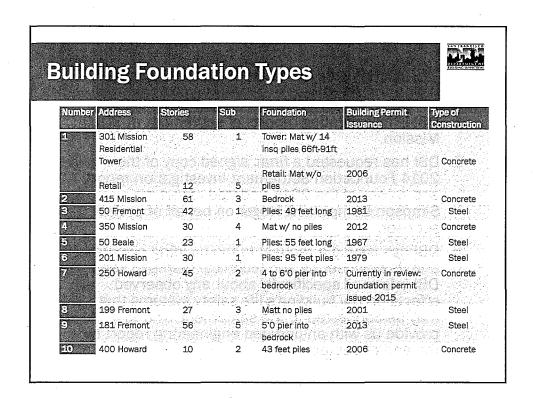
Permit Issued September 2005

**TCOs** March 19/May 8, 2009

CFC Issued August 2009

- DBI issues a TCO only after verifying that life safety components are installed in accordance with plans and are functional (plumbing, electrical, building, and fire).
- DBI inspected project site regularly from Jan 2006 Aug 2009 and found no signs of settlement.





#### **Current Policies for Tall Buildings**



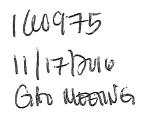
- Use of Administrative Bulletins (adopted in March 8, 2008) for Tall Buildings:
  - AB 082 Guidelines and Procedures for Structural Design Review and
  - 2. AB 083 Requirements & Guidelines for the Seismic Design of New Tall Buildings Using Non-Prescriptive Seismic Design Procedures.
- Mandatory structural design review of high-rise buildings over 240 ft. in height
- Any performance based design building structure will require AB 082 review.
- These ABs have been used as a model by other jurisdictions

#### **Status**



- 1. DBI is investigating reports of settlement at 301 Mission.
- 2. DBI has requested a final, signed copy of the 2014 Foundation Settlement Investigation report and a copy of the 2016 updated report by Simpson Gumpertz & Heger on behalf of project sponsor.
- 3. DBI has issued a request to the building owners and its engineering and technical teams to keep DBI informed specifically about any observed effects on the building's life safety systems that may be connected to the settlement, and to provide us with an updated engineering report by the end of September.

Hello Supervisors and others:



My name is Janet Campbell, I am an architect with an MBA in Real Estate, and have 38 years' experience in Architecture and Real Estate Development.

I came here today to help shed some light on what I have seen over the past 17 years of working to have clients' projects approved within the Planning, Building and other departments.

In 49 states, the blurring of lines of responsibility to produce plans is not allowed. Architects, Structural Engineers and Contractors are not allowed to practice each others' professions. They are to use a standard of due care particular to their professions for the good of the life, safety and welfare of the public, including financial, with regards to those who hold loans on such properties.

And in of all places, earthquake country, those lines have been blurred.

Further, while the license laws are clear as to who can and cannot practice architecture and engineering, time and again, we see "Paper napkin-like" drawings allowed to be taken in against License Laws and then approved - on commercial spaces or residential properties with multiple units on them.

Against the law. And in multiple Departments.

Why and How does this happen?

We see time and again glad-handing "expediters" who discuss issues of properties with Planning, Building and other Department personnel, representing clients - against license laws.

We see restaurants built out without plans and the appropriate permits. And contractors "crowing" in emails about how they "got 'er done".

The affect has been brutal on a number of my clients. Because of illegal units, at least two of my clients are stuck in a round hell of having based buying prices through clueless realtors with mortgages on the income from those units.

In one case the illegal units were approved by Planning against their codes and bought later by my clients, having now been to Director's Hearings and now with a lien against their property, and unable to sell or refinance.

Another client found herself represented by an expediter, who also represented the landlord. She signed a commercial lease prior to hiring me, and when I got into the project, found no way to accommodate a necessary second exit. She lost her investment, around \$250,000.

I have prevented a number of other clients from similar mistakes - IF they get to me soon enough, before the realtors, landlords and expediters get to them.

Other clients decide to steal architect's drawings, to use expediters. Recently, one walked off with much of 7 months' work, and is using it, to employ expediters to "get around the rules" and put things through Planning and Building much faster.

Another recently had a contractor who acts as an "expediter machine" with employees to take my drawings in, sign them as if he was myself, until an honest plan reviewer alerted me. Building tried to get me to take a payment from the expediter, then tried to get the City Attorney to prosecute him for fraud, and the City Attorney refused.

Even in Planning, there is a Design Team where one member told me a couple of years ago, "You sit down, Shut Up, We Design It and you detail it after it gets to Building."

They are not architects nor the architect-of-record, with certain duties and responsibilities, and do not understand the import of what they are doing, at the risk of the clients and those holding mortgages.

Despite attempts to get a planner to read a survey and understand that the two lots were two lots, I watched a client go belly-up, the Planner deliberately yelling us down and put him through a three-year "lot split" that finally took six months through the Assessor Recorder's Offices and DPW to prove that it was as recorded and surveyed, two lots. An architect in their position would never have done so.

And in the past month alone, I have caught three persons practicing on paper as architects and engineers, unlicensed.

When will it end?

#### In Summary:

#### ONLY When you:

1. Enforce the License Laws.

- 2. Separate all Disciplines into reviewing only their Disciplines.
- 3. Have clear Processes to go through, on Charts publicly available, without personnel interpretations allowed.
- 4. Have the appropriately trained Personnel, with licenses in those professions and at least 10-20 years experience, in Management and reviewing plans in every department that has to review them in the city. At Planning, Building, Fire, Health, DPW/BSM, MOD and etc.

#### For instance:

Architects do Architectural, including all Zoning, Design, Exiting, ADA and Health Code issues in all Departments reviewing plans.

Structural Engineers review Structural Engineering - only - at Building.
Geologists and GeoTechnical Engineers should at least be consulting at Building.

Civil Engineers should and are reviewing plans at DPW.

5. Have only the Architect or Engineer of Record pulling the plans through, or their direct employees

"Under their supervision" - as an employee, not consultant - is what the license law dictates.

6. Have Clear and Unchanged Standards on Plans, laid out in great detail, that all have to go through.

No personal interpretations should be allowed by Staff.

#### In Conclusion:

Familiarity and other methods used by expediters, plying the unlicensed and inappropriate employees reviewing plans in order to get a favorable interpretation, further erodes application of the codes and standards that matter to all of us.

It repeatedly has and is destroying the life, safety, health and welfare of the public - as seen in the Millenium Towers.

- Janet C. Caughoell, Fretutest November 17, 2016

#### **IN SUMMARY**

- 1. Enforce the License Laws.
- 2. Separate all Disciplines into reviewing only their Disciplines.
- 3. Have clear Processes to go through, on Charts publicly available, without personnel interpretations allowed.
- 4. Have the appropriately trained Personnel, with licenses in those professions and at least 10-20 years experience, in Management and reviewing plans in every department that has to review them in the city. At Planning, Building, Fire, Health, DPW/BSM, MOD and etc.

#### For instance:

Architects do Architectural, including all Zoning, Design, Exiting, ADA and Health Code issues in all Departments reviewing plans.

Structural Engineers review Structural Engineering - only - at Building.

Geologists and GeoTechnical Engineers should at least be consulting at Builling.

Civil Engineers should and are reviewing plans at DPW.

5. Have only the Architect or Engineer of Record pulling the plans through, or their direct employees

"Under their supervision" - as an employee, not consultant - is what the license law dictates.

6. Have Clear and Unchanged Standards on Plans, laid out in great detail, that all have to go through.

No personal interpretations should be allowed by Staff.

#### **In Conclusion:**

Familiarity and other methods used by expediters, plying the unlicensed and inappropriate employees reviewing plans in order to get a favorable interpretation, further erodes application of the codes and standards that matter to all of us.

It repeatedly has and is destroying the life, safety, health and welfare of the public - as seen in the Millenium Towers.

#### **BOARD of SUPERVISORS**



City Hall
1 Dr. Carlton B. Goodlett Place, Room 244
San Francisco 94102-4689
Tel. No. 554-5184
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#### MEMORANDUM

TO:

Tom Hui, Director, Department of Building Inspection

FROM:

Erica Major, Assistant Clerk, Government Audit and Oversight Committee,

**Board of Supervisors** 

DATE:

September 12, 2016

SUBJECT:

HEARING MATTER INTRODUCED

The Board of Supervisors' Government Audit and Oversight Committee has received the following hearing request, introduced by Supervisor Peskin on September 6, 2016:

File No. 160975

Hearing on existing building standards in seismic safety zones, including infill and waterfront neighborhoods; and requesting the Department of Building Inspection to report.

If you have any comments or reports to be included with the file, please forward them to me at the Board of Supervisors, City Hall, Room 244, 1 Dr. Carlton B. Goodlett Place, San Francisco, CA 94102.

CC:

William Strawn, Department of Building Inspection Carolyn Jayin, Department of Building Inspection

Print Form

#### **Introduction Form**

By a Member of the Board of Supervisors or the Mayor

I hereby submit the following item for introduction (select only one):	Time stamp	
I hereby submit the following item for introduction (select only one):	or meeting date	
1. For reference to Committee. (An Ordinance, Resolution, Motion, or Charter Amendment)		
2. Request for next printed agenda Without Reference to Committee.		
4. Request for letter beginning "Supervisor	] inquires"	
☐ 5. City Attorney request.		
☐ 6. Call File No. from Committee.		
7. Budget Analyst request (attach written motion).		
8. Substitute Legislation File No.		
9. Reactivate File No.		
☐ 10. Question(s) submitted for Mayoral Appearance before the BOS on		
Please check the appropriate boxes. The proposed legislation should be forwarded to the following Small Business Commission	-	
☐ Planning Commission ☐ Building Inspection Commissio		
Note: For the Imperative Agenda (a resolution not on the printed agenda), use a Imperative	Form.	
Sponsor(s):		
Aaron Peskin		
Subject:		
Hearing on Building Standards in Seismic Safety Zones		
The text is listed below or attached:		
Hearing at the Government Audit and Oversight Committee to receive presentations by the Depar Inspections on existing building standards in seismic safety zones, including infill and waterfront		
Signature of Sponsoring Supervisor:		
For Clerk's Use Only:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	