San Francisco International Airport

January 29, 2020

Adam Shapiro Bay Area Air Quality Management District 375 Beale Street, Suite 600 San Francisco, CA 94105-2097

Subject: Project Application for Carl Moyer Memorial Air Quality Standards Attainment Program

Dear Mr. Shapiro:

The City and County of San Francisco, through its Airport Commission, is submitting a Project Application for assistance under the Carl Moyer Memorial Air Quality Standards Attainment Program for the purchase and installation of electrical ground service equipment charging stations and supporting infrastructure. As instructed, the grant application is submitted through the Bay Area Air Quality Management District's Online Application System.

Thank you for considering this project for funding. Should you have any questions regarding the grant application, please contact Tina Ko by email at Tina.Ko@flysfo.com or by phone at (650) 821-2826.

ery truly yours. Ivar C. Satero Airport Director

Attachments

cc: Kevin Kone, SFO Ronda Chu, SFO Tina Ko, SFO Jim Chiu, SFO Jonathan Husband, SFO

AIRPORT COMMISSION CITY AND COUNTY OF SAN FRANCISCO

LONDON N. BREED	LARRY MAZZOLA	LINDA S. CRAYTON	ELEANOR JOHNS	RICHARD J. GUGGENHIME	MALCOLM YEUNG	IVAR C. SATERO
MAYOR	PRESIDENT	VICE PRESIDENT				AIRPORT DIRECTOR

	Account Mar	nagement	Proposal			
Edit Proposal Ge	neral Info					
GENERAL	Equipment	Fleet & Activity	Impacted Community	Engine & A	Activity	Attachment
Proposal Info						
Proposal Name *	eGSE Charger	s and Infrastru				
Organization	San Francisco,	, City & Count				
Primary proposal c	ontact info	P Or	erson authorized to sig	gn contracts	for	□ Same as primary.
First Name *	Tina		First Name *		Ivar	
Last Name *	Ко		Last Name *		Satero	
Email Address *	tina.ko@flysfo.	com	Email Address *		SFO.capitalfina	ince@flysfo.c
Phone Number *	(650) 821-2826	3 x	Phone Number *		(650) 821-5000	• • • • • • • • • • • • • • • • • • •
Fax Number	(650) 821-2925	5	Fax Number			
Mailing Address		Upda	ate Organization's Mailing A	ddress.		
Street address/ PO Box *	P.O. Box 8097	Street	Address Line 2			
City *	San Francisco	State '	¢	CALIFORNIA	\sim	
County *	San Francisco	Zip *		94128-8097		
What kind of project wo	uld you like to apply for? Off Road		~			
Project Category *		lacement (with retrofit or	tion) 🗸			
Project Category * Project Subcategory *	Equipment Repl					
Project Category * Project Subcategory * Note: Agricultural applie General Informatio Infrastructure costs ass funding. Does this proje associated with Zero-en If yes, describe the proj	Equipment Repl cants wanting to replace the n ociated with the purchase ict involve the purchase of nission vehicle (ZEV) or all posed infractructure: *	heir "mobile equipment of zero-emission equip f fueling or electric char t-fuel equipment projec	', please use "off-road equip ment may be eligible for pa ging infrastructure? Is infra t? *	pment replacen rtial grant structure	• Yes O	ype. No
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Project Category * Project Subcategory * Note: Agricultural applie General Informatio Infrastructure costs ass funding. Does this proje associated with Zero-en If yes, describe the prop This project will in If yes, what is the cost	Equipment Repl cants wanting to replace the ociated with the purchase of nission vehicle (ZEV) or all posed infrastructure: * nstall electric chargi to purchase and install the	heir "mobile equipment of zero-emission equip f fueling or electric char t-fuel equipment projec 	', please use "off-road equip ment may be eligible for pa ging infrastructure? Is infra t? * tructure permanently at	pment replacem rtial grant structure t the Airport	 • Yes • 5686595.00 	уре. No
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Project Category * Project Subcategory * Note: Agricultural applie General Informatic Infrastructure costs ass funding. Does this proje associated with Zero-en If yes, describe the proj This project will in If yes, what is the cost If yes, where will the in Street address * City * Zip * Total project cost (all ec	Equipment Repl cants wanting to replace the ociated with the purchase of nission vehicle (ZEV) or all posed infrastructure: * install electric chargi to purchase and install the frastructure be located? 1 N. McDonnell San Francisco 94128-8097 puipment and infrastructur	heir "mobile equipment of zero-emission equip f fueling or electric char t-fuel equipment projec .ng ports and infras e infrastructure? Rd. Stree 	<pre>', please use "off-road equip ment may be eligible for pa ging infrastructure? Is infra t? * tructure permanently at t Address Line 2 [* []</pre>	pment replacem rtial grant structure t the Airport CALIFORNIA	 Yes Yes 5686595.00 5686595.00 5686595.00 	уре. No

BAY AREA AIR QUALITY MANAGEMENT DISTRICT				Welcome Ivar Satero! Log Off
Home	Account Management	Proposal		
eGSE Chargers and ^ Infrastructure Boarding Areas D & G	Off-Road Equipme	ent Replacement (wi	th retrofit option): E	quipment Information
<u>84</u> 🕷	EQUIPMENT	Project Details Impacte	ed Community Engine & Activ	ity Attachment
Project Details / Impacted Community The Carl Moyer program grant pplication is being prepared to	Existing Equipment : Has this equipment recei	Information ved Carl Moyer Program funds	in the past? *	O Yes 💿 No
upport the purchase and	Primary Function *	The Carl Mover program g	rant application is being	prepared to support the
nstallation of 42 electric		purchase and installation	n of 42 electric charging	stations and supporting ~
harging stations and supporting	Street			
electrical infrastructure to	address/PO Box *	P.O. Box 8097		
upport airport ground support ent	Street Address Line 2		City *	San Francisco
quipment (GSE) in operation at liew &	Country *	Son Eronoiano	Ctata *	
FO. This is not an application	County *	Sall Flancisco V	State	
or the replacement or repower	If Other please specify		Equipment Category *	Airport ground support e \sim
f vehicles and engines.	Zip *	04400 0007	Equipment Type *	Other ~
	If other equipment type,	please describe		
This application is for 42 charging stations and electrical infrastructure to support electric airport GSE at SFO. The	This application is for airport GSE at SFO. Th Equipment Make *	or 42 charging stations ar ne information included fo JBT	nd electrical infrastructu pr Existing Equipment Make Equipment Model *	and Model is based on Commander 15
Equipment Make and Model is based on	Equipment Model Year *	2003	Equipment Serial Number	
tenant information for currently owned	Unit Number *	84	EIN *	946000417
asse in operation at SFO. This is only	Can this equipment be re	powered with the cleanest ava	allable engine?*	
emissions reductions. This is not an	can this equipment be re	powered with the cleanest ave		O les O No
application for new vehicle equipment.	Is 2 to 1 Replacement Ap	pplied?*		O Yes 💿 No
	New Equipment Info	ormation		
	Unit Number		Equipment Category	Airport ground support $e_{\!\scriptscriptstyle I}\!$
	Equipment Type *	Other	\checkmark	
The 42 charging stations and	If other equipment type,	please describe		
electrical infrastructure would support the operation of at least	The 42 charging static electric GSE at SFO. T	ons and electrical infrast The make and model of new	cructure would support the electric GSE is unknown s	operation of at least 84 or of
84 electric GSE at SFO. The make	Equipment Make *	eGSE	Equipment Model *	Electric
unknown since this is an	Equipment Model Year *	2020	Number of Main Engines *	1
nfrastructure project and not an	Number of Auviliany	<u> </u>	Replacement Equipment	
pplication for new electric GSE.	Engines *	1	Cost *	30000.00
	Name and location of dealership assisting with this vehicle		Vendor contact	
	Vendor Phone Number		EIN	

For any questions please contact us!

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Home	Account Management	Proposal	
eGSE Chargers and ^ Infrastructure Boarding Areas D & G 🕷	Off-Road Equipment F	Replacement (with retrofit	option): Project Details
<u>84</u> 🕱	Equipment PROJECT	DETAILS Impacted Community	Engine & Activity Attachment
Project Details 🥖			
Impacted Community Info 🥖	Have you, or will you, apply for the project equipment in this a	other grant funding to support	O Yes 💿 No
Main/Existing	How many off-road vehicles are	e owned by the applicant? *	84
Activity Info	What is the total horsepower of	f all vehicles in the fleet? *	9240
Add Engine	Is this vehicle subject to state I	Fleet Regulations? *	O Yes 💿 No
Add Equipment 💠	Name of California State Fleet F	Regulation this vehicle is subject to	ARB Cargo Handling Re $ \smallsetminus $
Add Attachment 🔮	What is the fleet's first complia	nce date? (Date Format: MM/DD/YYYY) [;]	*
<u>Proposal Review &</u> Submittal	Operation Information		
	Is existing equipment in operat	ble condition? *	O Yes 💿 No
	How many years has the applic	ant owned the existing equipment? st	10
	Does this vehicle have a function	oning, non-resettable hour meter? st	O Yes 💿 No
	Percent Operation in California	100	
	Percent Operation in District * Note: See <u>http://www.baaqmd.</u>	<u>gov/in-your-community</u> for a jurisdictio	n map. 100
	If funded, how many years will	you operate the replacement equipmen	t? * 10
< > >	Current engine hour meter/odo	meter reading *	10
	Click here to view the Air Distri	ct Jurisdiction Map	
			For any questions please contact u

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BAY AREA AIR QUALITY MANAGEMENT DISTRICT

	Account Manag	ement I	Proposal		
eGSE Chargers and ^ Infrastructure Boarding Areas D & G &	Off-Road Ec	quipment Replac	cement (with retrofit o	option): Impact	ed Communities
<u>84</u> 🔀	Equipment	Project Details	IMPACTED COMMUNITY	Engine & Activity	Attachment
Project Details 🥖					
Impacted Community					
Info 🥖	Projects that ope	erate in Bay Area highly	impacted communities will be p	prioritized for funding. T	o be considered for this
Main/Existing	prioritization, ple	ease answer the following	ng questions.	-	
Activity Info	Does this equip	ment operate in a Bay A	Area highly impacted community	/? * O Yes	• No
Activity IIIIO	(See the Priority	Community map: <u>Plea</u>	<u>se click here.</u>)	aina Information"	
Add Engine	II yes, piease ai	iswer the following que	Stion. If no, skip to Existing En	gine miormation	
Add Equipment	Please use the P	riority Community map	to identify which impacted com	munities this equipmen	t operates in, and
Add Attachment 💠	indicate the perc	entage of time this equ	ipment operates in each highly	impacted community in	the table below.
		ave request that the ara	nt applicant provide decumental	tion to varify the inform	ation provided below
Proposal Review &	BAAQMD staff m Use the "zoom ir	ay request that the gra " tool on the electronic	nt applicant provide documentation of the map to enlarge t	tion to verify the inform he map to best identify	ation provided below. boundaries.
Proposal Review & Submittal	BAAQMD staff m Use the "zoom ir	ay request that the gra " tool on the electronic	nt applicant provide documental version of the map to enlarge t	tion to verify the inform he map to best identify	ation provided below. boundaries.
Proposal Review & Submittal	BAAQMD staff m Use the "zoom ir Zone Number	ay request that the gra " tool on the electronic Community	nt applicant provide documentat version of the map to enlarge t Percent Opera	tion to verify the inform he map to best identify ation	ation provided below. boundaries.
<u>Proposal Review &</u> <u>Submittal</u>	Zone Number	ay request that the gra " tool on the electronic Community Concord	nt applicant provide documental version of the map to enlarge t Percent Opera	tion to verify the inform he map to best identify ation	ation provided below. boundaries.
Proposal Review & Submittal	Zone Number	ay request that the gra " tool on the electronic Community Concord Richmond/San Pablo	nt applicant provide documental version of the map to enlarge t Percent Opera	tion to verify the inform the map to best identify	ation provided below. boundaries.
<u>Proposal Review &</u> <u>Submittal</u>	BAAQMD staff m Use the "zoom in Zone Number 1 2 3	ay request that the gra " tool on the electronic Community Concord Richmond/San Pablo Western Alameda Cou	nt applicant provide documental version of the map to enlarge t Percent Opera	tion to verify the inform the map to best identify	ation provided below. boundaries.
<u>Proposal Review &</u> <u>Submittal</u>	BAAQMD staff m Use the "zoom ir Zone Number 1 2 3 4	ay request that the gra " tool on the electronic Community Concord Richmond/San Pablo Western Alameda Cou San Jose	nt applicant provide documental version of the map to enlarge t Percent Opera	tion to verify the inform the map to best identify	ation provided below. boundaries.
<u>Proposal Review &</u> <u>Submittal</u>	BAAQMD staff m Use the "zoom ir Zone Number 1 2 3 4 5	ay request that the gra " tool on the electronic Community Concord Richmond/San Pablo Western Alameda Cou San Jose	nt applicant provide documental version of the map to enlarge t Percent Opera	tion to verify the inform the map to best identify	ation provided below. boundaries.
<u>Proposal Review &</u> <u>Submittal</u>	BAAQMD staff m Use the "zoom in 2 1 2 3 4 5 6	ay request that the gra " tool on the electronic Community Concord Richmond/San Pablo Western Alameda Cou San Jose Livermore Fastern San Francisco	nt applicant provide documental version of the map to enlarge t Percent Opera nty	ation	ation provided below. boundaries.
<u>Proposal Review &</u> <u>Submittal</u>	BAAQMD staff m Use the "zoom in 2 2 3 4 5 6	ay request that the gra " tool on the electronic Community Concord Richmond/San Pablo Western Alameda Cou San Jose Livermore Eastern San Francisco Con Paferel	nt applicant provide documental version of the map to enlarge t Percent Opera nty	ation	ation provided below. boundaries.
<u>Proposal Review &</u> <u>Submittal</u>	BAAQMD staff m Use the "zoom in 1 2 3 4 5 6 7	ay request that the gra " tool on the electronic Community Concord Richmond/San Pablo Western Alameda Cou San Jose Livermore Eastern San Francisco San Rafael	nt applicant provide documental version of the map to enlarge t Percent Opera nty	tion to verify the inform the map to best identify	ation provided below. boundaries.
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For any questions please contact us!

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Home	Account Management	Proposal		
eGSE Chargers and ^ Infrastructure Boarding Areas D & G 🞇	Off-Road Equipment Information	t Replacement (with r	retrofit option): Engi	ne & Retrofit
<u>84</u> 🕱				
Project Details 🥖	Equipment Proje	ect Details Impacted Con	nmunity ENGINE & ACTIVITY	Attachment
Impacted Community Info 🖋	Existing/Baseline Engi	ne Information		
Main/Existing	Existing/ Buschine Engl			
Activity Info 🥖	Engine Fuel Type *	Diesel ~	Engine Make *	OSB4.5
Add Engine	Engine Model *	Cummins Engine Co	Engine Model Year *	2003
Add Equipment				2003
Add Attachment	Engine Serial Number		Engine Horsepower *	110
Proposal Review & Submittal	EPA Engine Family Number		Engine Emissions Tier *	Tier-2 V
	Estimated Fuel Consumption Rate (gallon/hours) *	3.000		
	Reduced Emission Rep	lacement Engine Informat	tion	
	Engine Fuel Type *	Electric ~	Engine Make *	electric ground support equir
	Engine Model *	Electric	Engine Model Year *	2020
	Engine Serial Number		Engine Horsepower *	0
	EPA Engine Family Number		Engine Emissions Tier *	Electric ~
	Is the Engine a Family Emiss	sions Limit (FEL) engine?		O Yes ● No
	Estimated Fuel Consumption Rate (gallon/hours) *	0.000		
	Engine Retrofit Inform	ation		
	Will a retrofit device be adde	ed to this engine as part of this	project? *	O Yes 💿 No
	Retrofit Device Make *		Retrofit Device Model *	
	% PM Reduction *	Select V	% NOX Reduction *	
	% ROG Reduction *		Retrofit Device ARB Executive Order Number *	
< > ×	Retrofit Cost Informati	ion		
	Retrofit Device System Cost *		Retrofit Device Installation Cost*	
	Total Cost of Retrofit *			
			For a	ny questions please contact us!

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Home	Account Managemen	nt	Proposal				
eGSE Chargers and Areas D & G	Off-Road Equip Information	ment Repl	acement (wi	th retrofit	option):	Engine	Activity
<u>84</u> 🔀							
Project Details / Impacted Community	Equipment	Project Details	Impacte	ed Community	ENGINE & A	СТІVІТҮ	Attachment
Main/Existing Engine1 🎽 🖉	Baseline Engine - Anni	ual operation de	etails *				
Activity Info 🖌	(Ye	2020 ar to Date) *	2019 *		2018 *	Estima *	ted Annual Future Usage
Add Equipment 💠	Hours 283		283	283		283	
Add Attachment 🖗 Proposal Review & Submittal	Fuel Use (gallons/year) 94		94	94		94	
						<u>For any qu</u>	lestions please contact us!

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Project Title:	eGSE Chargers and Infrastructure
Subject:	Project Introduction and Approach
Airport Code:	SFO
Airport Name:	San Francisco International Airport
Sponsor Name:	City and County of San Francisco
Airport Contact:	Ms. Tina Ko San Francisco International Airport P.O. Box 8097 San Francisco, CA 94128 <u>Tina.Ko@flysfo.com</u> 650-821-2826

The City and County of San Francisco (the City) is requesting Bay Area Air Quality Management District (BAAQMD) Carl Moyer Program funding in fiscal year (FY) 2020 for the purchase and installation of approximately 42 ground service equipment (GSE) electric charging stations together with supporting electrical infrastructure (the Project) at San Francisco International Airport (the Airport or SFO). On behalf of the City, Haley & Aldrich, Inc. (Haley & Aldrich) is preparing this letter to notify BAAQMD of the City's approach to applying for Carl Moyer Program funding for the Project.

In 2018, the Airport experienced a 3.5% increase in passenger traffic from the previous year, representing a record of nearly 58 million passengers. As of 2018, the Airport has seen 15 years of consistent passenger traffic growth, setting new records for passenger traffic every year since 2011. To accommodate the increase in passenger traffic and to update aging infrastructure, the City has completed a renovation of Terminal 2 and recently unveiled the new Harvey Milk Terminal 1. As a committed member of the airport environmental community, the City is integrating zero- and low-emissions technology throughout the Airport's capital improvement program by promoting the use of electric GSE (eGSE) at all gates.

Approximately, 53% of current GSE operating at the Airport are powered by non-electric means (i.e., fossil fuels). With the City's goal to improve local air quality and to decrease greenhouse gas emissions (GHG) to 40% baseline 1990 emissions by 2025, the long-term strategy is to provide electric charging infrastructure at all Airport gates to promote the replacement of existing conventionally powered GSE with eGSE. Promoting the use of eGSE at all boarding areas can be achieved by increasing the availability of electric charging stations. Currently, electric chargers are installed at roughly 36% of the gates. The Project would expand the availability of eGSE chargers and significantly reduce emissions from the combustion of gasoline and diesel fuel. By supporting the Project, the City can reduce approximately 50 tons of ozone precursors (NOx and VOCs) and 7,000 metric tons of GHGs over the lifetime of the equipment.

Senate Bill 513 (Beall, Chapter 610, Statutes of 2015) provides the Air Resources Board's (ARB) Carl Moyer Program with the ability to incorporate infrastructure projects into its funding program. It authorizes the funding of projects that enable the deployment of alternative, advanced, and cleaner

Carl Moyer Program January 2020 HALEY & ALDRICH .02 CMP Project Introduction

technologies to support the State's air quality goals. Specifically, Health and Safety Code section 44281(c) gives ARB the ability to provide funding toward the installation of fueling or energy infrastructure to fuel or power covered sources. Public and private entities are eligible to apply unless otherwise stated. Public entities include but are not limited to State, metropolitan, county, city, multi-county special district (e.g. water district), school district, university, and federal agencies and organizations.

The proposed Project includes the costs for purchase and installation of approximately 42 two-port electric GSE charging stations and supporting electrical infrastructure to be permanently located at the Airport. The Airport is eligible to receive funding through the Carl Moyer Program because it is owned by the City. All Project components would be owned and operated by the City and would contribute to reducing emissions from GSE in operation at the Airport. Preliminary estimates suggest that the Project can reduce approximately 50 tons of ozone precursors (NOx and VOCs) and 7,000 metric tons of GHGs over the lifetime of the equipment.

The City has prepared a Carl Moyer Program application in accordance with guidance received from BAAQMD. Guidance received from BAAQMD is included as an attachment. Through correspondence with BAAQMD, the City has indicated that the Carl Moyer Program application is to support an infrastructure project—the Project does not include the replacement or repower of any GSE. Given that this is an application for only infrastructure, the City has prepared an on-line application that reflects the Project components.

If there are any questions about the Project and the attached materials, please do not hesitate to contact Tina Ko at <u>Tina.Ko@flysfo.com</u>.

Attachments:

BAAQMD Correspondence and Guidance

Carl Moyer Program January 2020 HALEY & ALDRICH .02 CMP Project Introduction

From:	Adam Shapiro
To:	Tina Ko (AIR)
Cc:	John Galloway (AIR); Covert, Jeffrey
Subject:	RE: SFO / AQMD Incentives Program - Carl Moyer discussion
Date:	Thursday, October 17, 2019 2:25:48 PM
Attachments:	image001.png
	Inageouz.prig

CAUTION: External Email

Hi Tina,

Thanks for rescheduling on my behalf. Please see my responses in your email below.

As you've most likely noticed, we don't have a specific application for infrastructure only applications so SFO will need to fill out a regular application and provide more details in the proposed infrastructure project and upload them as additional attachments. Here are a few additional items and questions that can be submitted with the application to help us evaluate it:

- Provide a project scope of the proposed infrastructure.
- Provide as detailed as possible, quote, proposals, etc. that list the costs of the equipment, materials, designs, labor, etc.
- Will the equipment be new infrastructure or improvements/expansion of an existing infrastructure site?
- How many electric vehicles currently operate at each site location?
- How many years do the airlines and/or SFO plan on operating the the electric vehicles and infrastructure sites?
- Who owns the equipment and infrastructure.? Is any of the equipment or infrastructure currently owned or will they be leased? If leased, what are the terms of the lease and do the equipment owners intend purchasing the equipment once the lease has ended?
 (We want to make sure that the airlines and equipment owners will continue to operate electric vehicles/equipment throughout the project life of the proposed infrastructure project)
- Provide a description of warranty for the infrastructure? The Carl Moyer guidelines require at least a 1 year 3 year warranty for battery charging or alt fuel stations.
- Provide any permits or approvals needed to construct and operate the new infrastructure.
- Confirm that the SFO owns the land where the infrastructure will be located or has a long-term lease. We'll want to collect a copy of the lease if it's a long-term lease.
- Provide an estimate of the number of zero emissions miles and/or hours a year that would be provided with a potential infrastructure project versus what the current setup is.
- Would the ability to charge the electric equipment provide a reduction in vehicle miles travelled for the standard diesel equipment being operated now? If so, how much and would the diesel equipment be removed from service?

Hopefully, this answers your questions and provides you with more information on the application process. Please let me know if you have any additional questions on the application or funding process until our next call.

Project Title:	eGSE Chargers and Infrastructure
Subject:	Airline Support Letters
Airport Code:	SFO
Airport Name:	San Francisco International Airport
Sponsor Name:	City and County of San Francisco
Airport Contact:	Ms. Tina Ko San Francisco International Airport P.O. Box 8097 San Francisco, CA 94128 <u>Tina.Ko@flysfo.com</u> 650-821-2826

The City and County of San Francisco (the City) is requesting Bay Area Air Quality Management District (BAAQMD) Carl Moyer Program funding in fiscal year (FY) 2020 for the purchase and installation of approximately 42 ground service equipment (GSE) electric charging stations together with supporting electrical infrastructure (the Project) at San Francisco International Airport (the Airport or SFO). The chargers would be available to all Airport tenants that express interest. Currently, tenants use conventionally fueled GSE to support aircraft operations at the Airport. On behalf of the City, Haley & Aldrich, Inc. (Haley & Aldrich) is preparing this letter to notify BAAQMD that the City has acquired multiple letters of support for the Project from air carriers operating at SFO.

With Carl Moyer Program funding, the Airport would be able to support the operation of multiple fleets of electric GSE (eGSE). The City understands that the emissions reductions resulting from this Project are tied to the usage of eGSE instead of conventionally powered GSE. For this reason, the City has coordinated extensively with Airport tenants to obtain letters of support for the Project. The attached letters of support demonstrate the tenants' interest and commitment to utilizing eGSE charging stations when available. Carl Moyer Program funding is essential to realizing emission reductions and transitioning to an Airport-wide fleet of eGSE. The attached documents are letters of support from tenants at the Airport.

- Exhibit 1 is a letter of support from Alaska Airlines—the second largest carrier at the Airport. Alaska Airlines currently operates GSE that are powered by diesel and gasoline. However, it is important to note that their usage of eGSE chargers is contingent upon the availability of chargers. When the chargers are installed, Alaska Airlines would be able to consider eGSE when purchasing and replacing GSE.
- **Exhibit 2** is a letter of support from United Airlines—the largest carrier at the Airport. United is committed to the replacement of conventionally fueled GSE with new electric counterparts after installation of the charging stations.
- **Exhibit 3** is a letter of support from San Francisco Terminal Equipment Company (SFOTEC), LLC. SFOTEC is a consortium of foreign flag and domestic carriers that operate at the Airport. They were formed to use, operate, and maintain certain Airport-owned equipment and systems related to handling flights and passengers. As a tenant of the Airport, they are committing to

Carl Moyer Program January 2020 HALEY & ALDRICH .03 CMP Airline Support

the usage of eGSE charging stations and encouraging the ground handlers to replace existing conventionally fueled GSE with electric counterparts.

If there are any questions about the Project and the attached materials, please do not hesitate to contact Tina Ko at <u>Tina.Ko@flysfo.com</u>.

Attachments:

Alaska Airlines Letter of Support United Airlines Letter of Support SFOTEC Letter of Support

Carl Moyer Program January 2020 HALEY & ALDRICH .03 CMP Airline Support



Exhibit 1 Airline Support Letters

December 2, 2019

Adam Shapiro Bay Area Air Quality Management District 375 Beale Street, Suite 600 San Francisco, CA 94105-2097

Re: Alaska Airlines Letter of Commitment for Use of Electric GSE Charging Stations at San Francisco International Airport

Dear Mr. Shapiro,

Alaska Airlines (Alaska) has been informed by the City and County of San Francisco (the City) Airport Division of its intent to pursue funding through the Carl Moyer Program for the installation of electric charging stations to support electric ground support equipment (eGSE) at San Francisco International Airport (SFO). As a tenant of SFO, we support operationally and financially sound emission reduction capital improvement projects.

One of the many challenges Alaska has historically faced with utilizing eGSE or adding eGSE to our existing fleet at airports is insufficient charging infrastructure. When charging stations are readily available (in quantity and location), this allows Alaska to consider eGSE as our first option when purchasing new or replacing existing GSE.

Alaska Airlines would appreciate your support of the City's grant application for charging infrastructure under the Carl Moyer Program. These types of programs are vital for the aviation industry as well as the environment.

Sincerely,

fanet Baad

Janet Baad Manager, Environmental Affairs Janet.Baad@AlaskaAir.com 206-392-7947 Alaska Airlines



PO Box 68900, Seattle, WA 98168 P 206.433.3200

Exhibit 2 Airline Support Letters



Ray Ames Managing Director GSE and Facilities Maintenance

December 3, 2019

Adam Shapiro Bay Area Air Quality Management District 375 Beale Street, Suite 600 San Francisco, CA 94105-2097

Re: Letter of Commitment for Use of Electric GSE Charging Stations at San Francisco International Airport

To whom it may concern,

United Airlines has been informed by the City and County of San Francisco (the City) Airport Division of its intent to pursue funding through the Carl Moyer Program for the installation of electric charging stations to support electric ground support equipment (eGSE) at San Francisco International Airport (SFO). As a tenant of SFO, we strongly support the emission reduction improvement. This letter documents our commitment to utilize the electric charging stations and to replace existing conventionally-fueled GSE with new electric counterparts after installation of the charging stations.

United Airlines intends to deliver eGSE after the full installation of the electric charging stations at SFO. The eGSE will operate at SFO for their entire useful life. Upon purchase, United Airlines agrees to provide the City with the manufacturer specifications and hours of operation in order to comply with any foreseeable tracking requirements of the Carl Moyer Program.

United Airlines would appreciate your support of the City's grant application under the Carl Moyer Program. These types of programs are vital for the aviation industry as well as the environment.

Sincerely,

Ray Ames



SAN FRANCISCO TERMINAL EQUIPMENT COMPANY, LLC

December 3, 2019

Adam Shapiro Bay Area Air Quality Management District 375 Beale Street, Suite 600 San Francisco, CA 94105-2097

Re: Letter of Commitment for Use of Electric GSE Charging Stations at San Francisco International Airport

To whom it may concern,

SFOTEC member and non-member airlines operating in the International Terminal have been informed by the City and County of San Francisco (the City) Airport Division of its intent to pursue funding through the Carl Moyer Program for the installation of electric charging stations to support electric ground support equipment (eGSE) at San Francisco International Airport (SFO). As tenants of SFO, we strongly support the emission reduction improvement. This letter documents our commitment to help promote the usage of electric charging stations and to encourage our ground handlers to replace their existing conventionally-fueled GSE with new electric counterparts after installation of the charging stations.

SFOTEC member and non-member airlines intend to encourage their ground handlers to deploy eGSE after the full installation of the electric charging stations at SFO with the intent of that eGSE operating at SFO for their entire useful life. Upon ground handlers purchasing the eGSE, SFOTEC member and non-member airlines agree to assist in providing the City with the manufacturer specifications and hours of operation in order to comply with any foreseeable tracking requirements of the Carl Moyer Program.

SFOTEC member and non-member airlines would appreciate your support of the City's grant application under the Carl Moyer Program. These types of programs are vital for the aviation industry as well as the environment.

Sincerely,

Thomas Walsh Chairman, SFOTEC

Project Title:	eGSE Chargers and Infrastructure
Subject:	Proof of Property Ownership
Airport Code:	SFO
Airport Name:	San Francisco International Airport
Sponsor Name:	City and County of San Francisco
Airport Contact:	Ms. Tina Ko San Francisco International Airport P.O. Box 8097 San Francisco, CA 94128 <u>Tina.Ko@flysfo.com</u> 650-821-2826

The City and County of San Francisco (the City) is requesting Bay Area Air Quality Management District (BAAQMD) Carl Moyer Program funding in fiscal year (FY) 2020 for the purchase and installation of approximately 42 ground service equipment electric charging stations together with supporting electrical infrastructure (the Project) at San Francisco International Airport (the Airport or SFO). On behalf of the City, Haley & Aldrich, Inc. (Haley & Aldrich) is preparing this letter to notify BAAQMD of the City's ownership of land on which the Project would be located.

The proposed electric charging stations and supporting electrical infrastructure improvements would be permanently located at the Airport. Boarding areas D and G are comprised of 14 and 12 gates, respectively. The attached documents indicate the City's ownership of land where the proposed charging stations and electrical infrastructure would be constructed. A description of the exhibit included as an attachment is provided below.

• **Exhibit 1** is the Airport Property Map—stamped by the FAA—showing the distribution of land parcels that comprise the Airport. The table includes the organizations that granted the land to the City under the Grantor column. Boarding areas D and G are noted in red. The City owns all parcels where Boarding areas D and G are located. Therefore, this document indicates that the Project would be located on property owned by the applicant for Carl Moyer Program funding.

It is important to note that the City can provide BAAQMD with the deeds for land parcels included in Exhibit 1, which further demonstrate the City's ownership of property where the electric chargers and supporting electrical infrastructure would be installed. If BAAQMD would like to review the deeds, or if there are any additional questions, please do not hesitate to contact Tina Ko at <u>Tina.Ko@flysfo.com</u>.

Attachment:

Airport Property Map (Exhibit 1)

Carl Moyer Program January 2020 HALEY & ALDRICH .04 CMP Proof of Property Ownership



Drawing: X:\SFO\02-ADP\ALP Update\AutoCAD\Sheet 29 - Property Map.dwg_Layout: Sheet 29_Aug 25, 2016, 9:01pm

EXHIBIT A - AIRPORT PROPERTY MAP

		NO. 67 3911 OR 316																
E	asement ID	Conveyance Form	Document #	Document ID	Date	Acres	Dominant Estate	Servient Estate	Use	Easement ID	Conveyance Form	Document #	Document ID	Date	Acres	Dominant Estate	Servient Estate	Use
	E-1	Deed	Vol. 355 P. 241	-	5/23/1928	1.05	County of San Mateo	SFO	Right of Way	E-19	Condemnation	#1983-013501	Parcel 5B	2/11/1983	5.59	State of California	SFO	75' Channel Easemer
	E-2	Right-of-Way Easement	Vol 772 P. 389	-	2/8/1938	0.72	PGE	SFO	Transmission Line Easement	E-20	Condemnation	#1983-013501	Parcel 6A	2/11/1983	0.49	SFO	State of California	50' Underground Utilty Eas
	E-3	Deed	Vol. 1143 P. 423	Parcel 1	11/8/1944	1.62	City of San Bruno	SFO	10' Sewer Easement	E-21	Condemnation	#1983-013501	Parcel 6B	2/11/1983	0.48	PGE	SFO	15' Utility Easement
N	E-4	Deed	Vol. 1143 P. 423	Parcel 2	11/8/1944	0.01	City of San Bruno	SFO	10' Sewer Easement	E-22	Condemnation	#1983-013501	Parcel 7A	2/11/1983	0.32	SFO	State of California	50' Underground Utilty Eas
	E-5	Deed	Vol. 1143 P. 423	Parcel 3	11/8/1944	0.01	City of San Bruno	SFO	10' Sewer Easement	E-23	Condemnation	#1983-013501	Parcel 7D	2/11/1983	1.42	State of California	SFO	20' Slope Easement
	E-6	Joint Deed	Vol. 2240 P. 579	-	5/12/1952	1.27	City of Millbrae	SFO	50' Right of Way Easement	E-24	Quit Claim Deed	#2000-151058	55649-2	11/30/2000	2.66	State of California	SFO	Easement for Freeway Pu
	E-7	Exchange Deed	Vol. 2477 P. 231	Parcel E	9/25/1953	5.69	PGE	SFO	15' Gas Line Easement	E-25	Quit Claim Deed	#2000-151058	55650-1	11/30/2000	0.07	State of California	SFO	Easement for Freeway Pu
	E-8	Condemnation	Vol. 4729 P. 257	Parcel 2	6/10/1964	0.09	City of Millbrae	SFO	10' Sewer Easement	E-26	Quit Claim Deed	#2000-151058	55650-2	11/30/2000	1.55	State of California	SFO	Aerial Easement for Free
	E-9	Condemnation	Vol. 4729 P. 257	Parcel 3	6/10/1964	0.70	City of Millbrae	SFO	10' Sewer Easement	E-27	Quit Claim Deed	#2000-151058	55650-3	12/1/2000	3.55		SFO	Easement for Freeway Pu
	E-10	Easement Deed	Vol. 5188 P. 256	Parcel 1	7/12/1966	2.70	City of Millbrae	SFO	90' Drainage Easement	E-28	Easement Agreement	#2008-129814	D-3548-2	12/1/2008	0.94	BARI	SFO	Surface Easement
	E-11	Easement Deed	Vol. 5188 P. 256	Parcel 2	7/12/1966	1.16	City of Millbrae	SFO	105' Drainage Easement	E-29	Easement Agreement	#2008-129814	D-3564-2A	12/1/2008	0.82	BART	SEO	Surface Easement
	E-12	Condemnation	Vol. 7311 P. 612	Parcel 2	11/30/1976	0.27	PGE	SFO	30' Road Easement	E-30	Easement Agreement	#2008-129814	D-3564-2R	12/1/2008	1 74	BART	SEO	Surface Easement
	E-13	Condemnation	Vol. 7311 P. 612	Parcel1	11/30/1976	2.95	PGE	SFO	Transmission Line Easement	F-32	Easement Agreement	#2008-129814	D-3564-20	12/1/2008	0.2	BART	SFO	Surface Easement
	E-14	Condemnation	#1983-013501	Parcel 1D	2/1/1983	1.58	State of California	SFO	Easement for Channel Purposes	F-33	Easement Agreement	#2008-129814	D-3564-2D	12/1/2008	0.49	BART	SFO	Surface Easement
	E-15	Condemnation	#1983-013501	Pacel 6A	2/11/1983	0.04	SFO	State of California	50' Drainage Easement	E-34	Easement Agreement	Vol. 495 P. 276	-	9/30/1930	0.17	PGE	SFO	5' Gas Line Easemen
	E-16	Condemnation	#1983-013501	Parcel 1C	2/11/1983	0.21	Pacific Telephone	SFO	10' Utility Easement	E-35	Resolution	1073-87	-	3/17/1987	2.2	SFO	U.S. Coast Guard	Taxiway
	E-17	Condemnation	#1983-013501	Parcel 3B	2/11/1983	0.9	State of California	SFO	Easement for Roadway Purposes	E-36	Easement Agreements	[Compilation]	-	1913-1999	38.4	PGE	SFO	Transmission Line Easer
	E-18	Condemnation	#1983-013501	Parcel 3C	2/11/1983	0.5	State of California	SFO	Easement for Roadway Purposes	E-37	Exchange Deed	Vol 4237 P. 183	-	6/28/1962	0.11	PGE	SFO	15' Gas Line Easemei



APPROVED BY:

Federal Aviation Administration

SFO-ADO Acceptance of Exhibit "A" Aliport Property FAA DISCLAIMER: The contents of this plan do not necessarily reflect the official views or policy of the FAA. Acceptance of these documents by the FAA does not in any way constitute a commitment on the part of the United States to participate in any development depicted therein, nor does it indicate that the proposed development is environmentally acceptable in accordance with appropriate public laws.

PPROVED BY:

NO.

8/31/16

Date

Exhibit 1 Proof of Property Ownership

GRANTOR	BOARD OF SUPERVISORS	ACRES	ACQL		DOCUMEN	
	RESOLUTION		ACQUISITION FORM	BOOK #	PAGE #	DATE
ay, Nettie M.	Res. 4328	40.00	Fee	817	492	1/27/1939
vaco Chlorine Products Corporation	Res. 31	89.96	Fee	829	391	2/24/1939
al Land and Improvement Company	Res. 221	6.60	Fee	862	6	2/27/1939
de Company	Res. 1170	35.79	Fee	913	126	7/29/1940
<s, al.<="" et="" matthew="" r.,="" td=""><td>Res. 1171</td><td>59.99</td><td>Fee</td><td>937</td><td>166</td><td>1/6/1941</td></s,>	Res. 1171	59.99	Fee	937	166	1/6/1941
Jonathan M., et al.	Res. 1171	40.00	Fee	926	210	10/29/1940
nsteiger, Sebastian V. et al, 1/10 interest	Res. 1171	20.00	Fee	941	161	1/21/1941
lle, Alice Pearl, et al, 1/10 interest	Res. 1171	N/A	Fee	942	103	1/21/1941
lle Estate Company, 8/10 interest	Res. 1171	N/A	Fee	934	191	1/21/1941
c Portland Cement Company	Res. 3109	439.95	Fee	1072	199	2/9/1943
ine Sharp Estate Company	Res. 3009	75.93	Fee	1056	54	3/3/1943
vaco Chlorine Products Corporation	Res. 3212	20.00	Fee	1060	225	4/19/1943
of California	Res. 6382	21.02	Legislative Grant			6/2/1943
de Company	Res. 3322	60.87	Fee	1079	50	7/23/1943
ard, Adeline M & the Bank of America NA	Res. 5524	154.26	Fee	1294	45	8/6/1946
e Moore Hunt Company Ltd.	Res. 5524	6.17	Fee	1305	379	8/5/1946
c Gas and Electric Company	Ord. 3975	0.78	Contract			1/16/1947
	Ord. 7253	N/A	Exchange Deed	2477	231	7/14/1953
nan, Rober L, Jr. & Edith B.	Res. 5705	67.05	Fee	1301	132	9/20/1946
c Portland Cement Company	Res. 6043	231.91	Fee	1311	462	1/28/1947
Machinery & Chemical Corporation	Res 13737	139.97	Fee			12/15/1953
Estate Incorporated	Res 5799	17.83	Fee	1586	561	4/1/1948
s. Henry	Res 5524	6 97	Fee	1319	22	8/5/1946
of California	Ord 3975	10.91	Contract	1315	22	8/26/1946
or camornia	Dru: 3975	N/A	Director's Dood	2407	115	4/2/1952
	Ord 2075		Loint Dood	2407	445	12/17/1953
	010. 5975	6.27	Joint Deed	1201	404	12/17/1999
City Scavenger Co et al	Dec 17225	14.20		1301	211	5/15/1057
Giulia & Biglieri, Giovanni	Res. 17335	14.55	Fee	3252	311	1/17/10/7
	Res. 5855	1.97	Fee	1334	63	11/6/10/7
	Res. 6911	38.21	Fee Ouitalaim Daad	1430	224	2/12/10/7
a States of America	Res. 6687	37.10		1351	273	5/15/1947
	Ord. 8011	N/A	Joint Deed	2465	/3	1/20/1047
Iouse, Arthur A.	Res. 6074	1.39	Fee	1365	187	2/2/1047
	Res. 6111	0.11	Fee	1336	16	2/3/194/
nior, Joseph J, et ux.	Res. 5921	0.06	Fee	1316	491	1/14/194/
and L	Res. 5996	0.05	Fee	1314	372	12/11/1946
ona, L. I.	Res. 5441	0.06	Decree	1393	458	11/14/1947
Isula Title Guaranty Company	Res. 5921	0.24	Fee	1306	473	11/21/1946
, Miles M., et ux	Ord. 4277	0.06	Joint Deed			4/1//1947
Wm, Eustace et al	Res. 5441	N/A	Decree	1940	354	8/4/1948
, Margaret Lucile	Res. 7467	N/A	Quitclaim Deed	1538	199	6/2/1948
, Otis D et ux	Res. 4276	0.09	Joint Deed	1347	387	4/16/1947
n, Thomas J., et ux	Res. 6519	0.23	Fee	1450	343	7/18/1947
rt, Alzere B.	Res. 5441	0.00	Decree	1372	494	11/14/1947
ee, Lea M	Res. 5441	0.44	Decree	1979	183	9/18/1947
ey, Hazel Annie	Res. 5441	0.11	Decree	1979	183	9/18/1947
nan, I.	Res. 7065	0.17	Fee	1891	59	6/27/1950
tsky, Hattie	Res. 7065	0.13	Fee	1464	386	3/24/1948
tsky, Hattie	Res. 7065	0.06	Fee	1464	386	3/24/1948
n, Jesse Braswell	Res.5441	0.06	Decree	1979	183	9/18/1947
d, E. W., et ux	Res. 10446	N/A	Easement	2014	525	1/15/1951
of Millbrae	Res. 6942	2.47	Joint Deed	2240	579	4/28/1952
d States of America ¹	Res. 5939 and 5940	N/A	Decree	3007	484	11/16/1945
d States of America	Ord 7054	N/A	Quitclaim Deed	2587	456	1/16/1952
Machinery & Chemical Corporation	Res. 458-59	1219.84	Fee	3624	715	6/18/1959
Cement Company	Res. 427-60	361.04	Fee	3859	311	9/7/1960
tic Life Insurance Co.	Res. 758-60	0.51	Fee	3911	316	12/19/1960
tic Life Insurance Co., et al	Res. 758-60	28.74	Fee	3911	310	12/19/1960
of California		N/A	Director's Deed	2000	151059	
of California		N/A	Director's Deed	2000	151090	
of California		0.33	Director's Deed	2000	151061	6/19/2007
, Inc., April 2013. the District Court of the United States N	orthern District of Californ	nia Sout	hern Division]

1/ Proceedings of the District Court of the United States, Northern District of California, Southern Division

SFO - San Francisco International Airport

DATE

TRUE NORTH

REVISION HISTORY

DESCRIPTION

_____ NO. 19 817 OR 492 _____ LEGEND EASEMENTS BART - Bay Area Rapid Transit PGE - Pacific Gas & Electric Company

DRAWN BY: BAM, DGR CHECKED BY: DGR MAGNETIC NORTH DECLINATION = 13° 3 PREPARED BY:

> Woolpert, Inc. DATE: August 31, 2016

> > Sheet 29 of 31

GRAPHICAL SCALE IN FEET

ANNUAL RATE OF CHANGE = 0° 6' W (FEB 2016)

Project Title:	eGSE Chargers and Infrastructure
Subject:	Proof of Site Power
Airport Code:	SFO
Airport Name:	San Francisco International Airport
Sponsor Name:	City and County of San Francisco
Airport Contact:	Ms. Tina Ko San Francisco International Airport P.O. Box 8097 San Francisco, CA 94128 <u>Tina.Ko@flysfo.com</u> 650-821-2826

The City and County of San Francisco (the City) is requesting Bay Area Air Quality Management District (BAAQMD) Carl Moyer Program funding in fiscal year (FY) 2020 for the purchase and installation of approximately 42 ground service equipment electric charging stations together with supporting electrical infrastructure (the Project) at San Francisco International Airport (the Airport or SFO). On behalf of the City, Haley & Aldrich, Inc. (Haley & Aldrich) is preparing this letter to notify BAAQMD of the City's proof of power to the site where the Project would be located.

The proposed electric charging stations and supporting electrical infrastructure improvements would be permanently located at the Airport. Electricity is provided by the San Francisco Public Utilities Commission to the entire Airport, including all boarding areas. Pacific Gas & Electric (PG&E) provides natural gas to the Airport. The attached documents provide documentation that electricity and natural gas are provided to the site where proposed charging stations and electrical infrastructure would be constructed. The following list describes the significance of each document included as an attachment.

• **Exhibit 1** is the Airport Electricity Bill during the month of October 2019 from the San Francisco Public Utilities Commission. The bill indicates that electricity is provided to the entire airport, identified as SFIA (i.e., San Francisco International Airport). Considering that the Project would be permanently located at SFO, and owned by the City, the electricity bill shows that electricity would be available to the Project site.

If there are any questions about the Project and the attached materials, please do not hesitate to contact Tina Ko at <u>Tina.Ko@flysfo.com</u>.

Attachment:

San Francisco Public Utilities Commission – SFO Electricity Bill (Exhibit 1)

Carl Moyer Program January 2020 HALEY & ALDRICH .05 CMP Proof of Site Power

Exhibit 1

Proof of Site Power

٢

San Francisco San Francisco International Airport Worksheet

SFIA		Oct-18						
	nagrogated	ComCol	DTC	w/o CC. DTC		E20P		
Energy Gharge	aygregated 5 201 / 87 0	1 643 7	13 165 6	5 276 677 7	\$	0.15199		802,002.24
Peak	6 101 168 7	1 001 4	15 359 8	6 103 907 5	\$	0.10749		656,109.02
	45 629 747 6	4,854.9	42 454 3	15 581 438 4	\$	0.08012	<u>Aliyaa</u> a	1,248,384.85
Jtt Peak	27 044 403 3	8 400 0	70 979 7	26.962.023.6				2,706,496.11
lotal	21,041,403.3	0,400.0	10,01011					, ,
					·	F20P		*
Demand Charge	44 496 4	12.0	95.4	41 378 1	\$	20.62		853,216,42
Peak	41,400.4	12,0	95 /	41 478 9	\$	5.45		226,060.01
Partial Peak	41,087.2	12.5	05.4	40 111 3	\$	-		
Off Peak	40,219.2	12,0	05.4	41 478 9	\$	15.97		662 418 03
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	27,041,403.3 k	Wh		(5)	\$	0.00005	<u>ф</u>	(0,740.51
							÷	4 440 050 00
Initial SFIA charge	26931684.8						\$	4,442,950.06
						•		
							•	•
Detail	kWh			w/o CC, DTC			\$	
SEIA Direct	14.644,975.6			14,644,975.6			\$	2,413,279.36
Data Center	70.979.7							
Community College	8,400.0				100	····	\$	-
Tenants	12.317,048.0			12,317,048.0			\$	2,029,670.69
Tonunto	27,041,403.3			26,962,023.6			\$	4,442,950.06
		kWh						
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Usugo motoro	1	,						
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Total Orin								
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							\$	4,445,715.6
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Grand Total SFIA SFIA Accounting SFIA Recorders Renev Summary	vable Generation k	Wh 14 654 942 1		<u>.</u>). ¹		\$	2,416,044.9
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Project Title:	eGSE Chargers and Infrastructure
Subject:	Documentation of Required Permits
Airport Code:	SFO
Airport Name:	San Francisco International Airport
Sponsor Name:	City and County of San Francisco
Airport Contact:	Ms. Tina Ko San Francisco International Airport P.O. Box 8097 San Francisco, CA 94128 <u>Tina.Ko@flysfo.com</u> 650-821-2826

The City and County of San Francisco (the City) is requesting Bay Area Air Quality Management District (BAAQMD) Carl Moyer Program funding in fiscal year (FY) 2020 for the purchase and installation of approximately 42 ground service equipment electric charging stations together with supporting electrical infrastructure (the Project) at San Francisco International Airport (the Airport or SFO). On behalf of the City, Haley & Aldrich, Inc. (Haley & Aldrich) is preparing this letter to notify BAAQMD of the status of required permits needed for installing the charging stations and supporting infrastructure.

The proposed electric charging stations and supporting electrical infrastructure improvements would be permanently located on land owned and operated by the Airport. The charging stations would be located on the airside of SFO and fully accessible to Airport tenants. Given the location and ownership of chargers and supporting electrical infrastructure, approval from the Federal Aviation Administration (FAA) and the Building Inspection and Code Enforcement (BICE) is required. The FAA requires for the City to meet the requirements of the National Environmental Policy Act (NEPA). BICE enforces the California building codes for projects at the Airport. As a part of the Project, the City has coordinated with the FAA and BICE to construct and operate the chargers and electrical infrastructure. The following exhibit documents the City's compliance with NEPA and the FAA.

• **Exhibit 1** is the FAA's NEPA determination for the Project. As indicated in the FAA's letter, the Project is categorically excluded, and no further federal environmental disclosure is needed from the FAA. Given the size and scope of the Project, the FAA does not require any further documentation or permits from the City.

The City is in the process of seeking approval from BICE. After design is complete, the City will coordinate with BICE to review drawings and comments. When drawings are forwarded to BICE, the City will forward the corresponding letter to BAAQMD, if necessary. Given the location and scope of the Project, the City anticipates full approval from BICE. If there are any questions about the Project, please do not hesitate to contact Tina Ko at <u>Tina.Ko@flysfo.com</u>.

Attachment:

FAA NEPA Determination (Exhibit 1)

Carl Moyer Program January 2020 HALEY & ALDRICH .06 CMP Documentation of Required Permits



U.S. Department of Transportation

Federal Aviation Administration Western-Pacific Region San Francisco Airports District Office Exhibit 1 Documentation of Required Permits

1000 Marina Blvd., Suite 220 Brisbane, CA 94005-1835

January 9, 2019

John Bergener Airport Planning Director City and County of San Francisco San Francisco International Airport Bureau of Planning and Environmental Affairs P. O. Box 8097 San Francisco, CA 94128

Subject: San Francisco International Airport – Boarding Area D and G – Electric Ground Support Equipment Infrastructure and Charging Stations Project - Categorical Exclusion

Dear Mr. Bergener:

The Federal Aviation Administration (FAA) has reviewed the environmental information for the proposed Boarding Areas D and G Electric Ground Support Equipment Infrastructure and Charging Stations Project at San Francisco International Airport. The FAA has determined the proposed project is Categorically Excluded pursuant to FAA Order 1050.1F as it relates to the National Environmental Policy Act of 1969, as amended (NEPA). Therefore, no further federal environmental disclosure documentation for the following project components is necessary for NEPA purposes.

This letter notifies you that the proposed project has complied with NEPA only. This is not a notice of final project approval of funding availability.

If you have any questions regarding this matter I am available at 650-827-7613, or by email at Camille.Garibaldi@faa.gov.

Sincerely,

anbald.

Camille Garibaldi Environmental Protection Specialist

cc: Audrey Park, San Francisco International Airport

Project Title:	eGSE Chargers and Infrastructure
Subject:	Description of Ground Service Equipment
Airport Code:	SFO
Airport Name:	San Francisco International Airport
Sponsor Name:	City and County of San Francisco
Airport Contact:	Ms. Tina Ko San Francisco International Airport P.O. Box 8097 San Francisco, CA 94128 <u>Tina.Ko@flysfo.com</u> 650-821-2826

The City and County of San Francisco (the City) is requesting Bay Area Air Quality Management District (BAAQMD) Carl Moyer Program funding in fiscal year (FY) 2020 for the purchase and installation of approximately 42 ground service equipment (GSE) electric charging stations together with supporting electrical infrastructure (the Project) at San Francisco International Airport (the Airport or SFO). On behalf of the City, Haley & Aldrich, Inc. (Haley & Aldrich) is preparing this letter to provide details on GSE used to estimate emission reductions.

The proposed Project includes the costs for purchase and installation of approximately 42 two-port electric GSE charging stations and supporting electrical infrastructure. The Project components would be available to all Airport tenants that show interest and have the capability to support the operation of at least 84 electric GSE. Table 1 outlines the information and sources of information used to complete the Carl Moyer Program grant application. The inputs in Table 1 also provide information for estimating the emissions reduced as a result of the Project.

If there are any questions about the Project and the GSE information, please do not hesitate to contact Tina Ko at <u>Tina.Ko@flysfo.com</u>.

Carl Moyer Program January 2020 HALEY & ALDRICH .07 CMP Description of GSE

Item	Input	Source
Number	At least 84	The City
Model year	2003	SFO tenant airline
Equipment make	JBT	SFO tenant airline
Equipment model	Commander 15	Previous airline data
Engine model	Cummins Engine Co	Previous airline data
Engine make	OSB4.5	Previous airline data
Engine HP	110	Previous airline data
Emissions tier	Tier 2	CARB
Fuel consumption (gall/hr)	3	SFO tenant airline
Costs	\$30,000	On-line manufacturer
Useful life	13	SFO tenant airline
Annual hours	283	SFO tenant airline
Notes:		

Table 1: GSE Inputs

SFO tenant airlines provided equipment make and data used to determine the useful life, annual hours of operation, model year, and emission tier.

Previous data obtained from tenant airlines was used to determine the information not provided by SFO tenant airlines, which includes equipment model, horsepower, engine model and make.

EGSE costs are approximate and obtained from on-line sources. -

Carl Moyer Program January 2020 HALEY & ALDRICH .07 CMP Description of GSE

Project Title:	eGSE Chargers and Infrastructure
Subject:	Description of Project Costs
Airport Code:	SFO
Airport Name:	San Francisco International Airport
Sponsor Name:	City and County of San Francisco
Airport Contact:	Ms. Tina Ko San Francisco International Airport P.O. Box 8097 San Francisco, CA 94128 <u>Tina.Ko@flysfo.com</u> 650-821-2826

The City and County of San Francisco (the City) is requesting Bay Area Air Quality Management District (BAAQMD) Carl Moyer Program funding in fiscal year (FY) 2020 for the purchase and installation of approximately 42 ground service equipment (GSE) electric charging stations together with supporting electrical infrastructure (the Project) at San Francisco International Airport (the Airport or SFO). On behalf of the City, Haley & Aldrich, Inc. (Haley & Aldrich) is preparing this letter to provide a description of the costs.

The proposed Project includes the costs for purchase and installation of approximately 42 two-port electric GSE charging stations and supporting electrical infrastructure. The Project components would be permanently located the Airport. The charging stations would be available to all Airport tenants. To support the charging stations at all locations, the Project requires three 480-volt subpanels (two at Boarding area G and one at Boarding area D) along with the breakers, conduit, and circuitry to support the subpanels. The subpanels would be used to extend wiring from the main service panel to the charging stations located throughout Boarding areas D and G. Due to the size of Boarding area G, this location requires two subpanels to cover distance between the main service panel and electric chargers.

The attached documents provide a preliminary cost estimate for the Project. All items included in the cost estimate are eligible for funding as described in Chapter 10: Infrastructure of the Carl Moyer Program. It is important to note that the final costs will be determined after the City selects a winning bidder. After a bidder is selected, and upon award notification, the City will provide BAAQMD with the necessary documentation that details the final expected costs. In the interim, the attached information provides expected costs based on preliminary design and engineering completed by the City.

• **Exhibit 1** is a Detailed Cost Estimate for the Project provided by the City. The City anticipates for the Project to cost approximately \$5,686,595 based on preliminary cost estimates.

If there are any questions about the Project and the attached materials, please do not hesitate to contact Tina Ko at <u>Tina.Ko@flysfo.com</u>.

Attachment:

Detailed Cost Estimate (Exhibit 1)

Carl Moyer Program January 2020 HALEY & ALDRICH .08 CMP Project Costs

San Francisco International Airport eGSE Infrastructure and Charging Stations Project Detailed Cost Estimate January 2020

Cost Cotogony	Description		Total		Grant		Non-Participating			
Cost Category	Description		Project Cost		Eligible		Costs			
Engineering	Design and construction of the project	\$	400,000	\$	400,000	\$	-			
Droject Management	Planning, executing, controlling of the project teams,	ć	200.000	ć	200.000	ć				
Project Management	schedule, and budget	Ş	> 200,000		200,000		ş 200,000		Ş -	
Construction Convisor	Support to project planning, procurement, inspection,	ć	ć 400.000 s	ć	400.000	ć				
Construction Services	safety, quality control, document control, payment	Ş	400,000	\$ 400,000		Ş -				
	Airfield safety officers to escort construction crew,									
Airfield Operations	inspectors, etc. onto the airfield operations area where	\$	150,000	\$	150,000	\$	-			
	access is limited and controlled									
SFPD	Police staff stationed at the airfield checkpoints	\$	50,000	\$	-	\$	50,000			
Specialized Services	Support for Independent Cost Estimate	\$	50,000	\$	50,000	\$	-			
Reprographics	Support documentation needs	\$	2,000	\$	2,000	\$	-			
Subtotal Soft Costs		\$	1,252,000	\$	1,202,000	\$	50,000			
Cloud Software	Software for 10 years	\$	470,400	\$	-	\$	470,400			
Construction Contract	Construction	\$	4,484,595	\$	4,484,595	\$	-			
Subtotal Construction Contract		\$	4,954,995	\$	4,484,595	\$	470,400			
Contingency	Allowances for unknown risks associated with a project	\$	495,500	\$	-	\$	495,500			
Total Project Cost			\$6,702,495		\$5,686,595		\$1,015,900			

Project Title:	eGSE Chargers and Infrastructure
Subject:	Warranty Information
Airport Code:	SFO
Airport Name:	San Francisco International Airport
Sponsor Name:	City and County of San Francisco
Airport Contact:	Ms. Tina Ko San Francisco International Airport P.O. Box 8097 San Francisco, CA 94128 <u>Tina.Ko@flysfo.com</u> 650-821-2826

The City and County of San Francisco (the City) is requesting Bay Area Air Quality Management District (BAAQMD) Carl Moyer Program funding in fiscal year (FY) 2020 for the purchase and installation of approximately 42 ground service equipment electric charging stations together with supporting electrical infrastructure (the Project) at San Francisco International Airport (the Airport or SFO). On behalf of the City, Haley & Aldrich, Inc. (Haley & Aldrich) is preparing this letter to notify BAAQMD of the City's warranty requirements associated with the Project.

The proposed electric charging stations and supporting electrical infrastructure improvements would be owned and operated by the City, and permanently located at the Airport. The City would procure the equipment according to internal policy and procedures for acquiring new electrical infrastructure at the Airport. This would require for the City to prepare a solicitation (e.g., RFP) that details the necessary specifications for the electrical infrastructure. Included in the specifications are the City's General Conditions which outline the requirements for the selected bidder. All bidders must meet these General Conditions to be selected for the Project. The attached document details the specifications that would go out to bid for the Project. As detailed in the attachment, the City requires a warranty of at least two years, which meets requirements for infrastructure funded under the Carl Moyer Program.

• **Exhibit 1** is the City's General Conditions for the Project. On page 27 of 87, the document includes details of warranty requirements for the Project. On page 57 of 87, the City indicates that the Project requires a warranty of at least 2 years.

If there are any questions about the Project and the attached materials, please do not hesitate to contact Tina Ko at <u>Tina.Ko@flysfo.com</u>.

Attachment:

City General Conditions (Exhibit 1)

Carl Moyer Program January 2020 HALEY & ALDRICH .09 CMP Warranty

not provided or recommended by Contractor where the combination is the basis for infringement; or (iii) articles supplied to Contractor by the City.

3.17 WARRANTY

- A. Contractor warrants and guarantees to the City that materials and equipment provided under the Contract shall be at least of the quality specified and new unless otherwise required or permitted by the Contract Documents. If no quality is specified in the Contract Documents, then the materials and equipment shall be of commercial grade, suitable for heavy public use in facilities of similar size and complexity; that the Work will be free from defects, and that the Work will conform to the requirements of the Contract Documents. Contractor additionally warrants manufacturers' product warranties: (1) for the Guarantee-to-Repair Period; and (2) for any duration that may be specified in the Contract Documents for any particular product.
- **B.** Contractor's warranty excludes damage or defects caused by abuse, modifications to equipment by the City and not authorized by Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear. Testing shall not be construed as operation.
- C. Contractor shall deliver product warranties and guarantees conforming to the requirements of the Specifications to the City Representative in the timeframes set forth in the Contract Documents, but no later than Final Completion.
- D. The warranty provisions of this Paragraph 3.17 are separate and additional to the Guarantee to Repair Period and the provisions for correction of Non-conforming Work as specified in Article 8.

3.18 TAXES

Contractor shall be responsible for paying all taxes applicable during the performance of the Work or portions thereof, whether or not said taxes were in effect on or increased after the date of Bid opening.

3.19 INDEMNIFICATION

A. Consistent with California Civil Code Section 2782, Contractor shall assume the defense of, indemnify and hold harmless the City, its boards and commissions, other parties designated in Document 00 73 16 (Insurance Requirements), and all of their officers, agents, members, employees, authorized representatives, or any other persons deemed necessary by any of them acting within the scope of the duties entrusted to them, from all claims, suits, actions, losses and liability of every kind, nature and description, including but not limited to attorney's fees, directly or indirectly arising out of, connected with or resulting from the performance of the Work. This indemnification shall not be valid in the instance where the loss is caused by the sole negligence or willful misconduct of any person indemnified herein. Contractor's obligations under this Paragraph apply regardless of whether or not such claim, suit, action, loss or liability was caused in part or contributed to by an Indemnitee. However, without affecting the rights of the City under any provision of this Contract, Contractor shall not be required to indemnify and hold harmless City for liability attributable to the active negligence of City, provided such active negligence is determined by agreement between Contractor and City or by the findings of a court of competent jurisdiction. In instances where City is shown to have been actively negligent and where City's active negligence accounts for

- H. Contractor shall provide promptly all facilities, labor, equipment, and material reasonably needed for performing such safe and convenient inspection and test as may be required by the City. Tests or inspections conducted pursuant to the Contract Documents will be made promptly to avoid unreasonable delay in the Work.
 - 1. The City reserves the right to charge to Contractor any additional cost of inspection, including travel, transportation, lodging, etc., or test when the Work, material or workmanship is not ready for testing or inspection at the specified time.

8.03 CORRECTION OF NON-CONFORMING WORK AND GUARANTEE TO REPAIR PERIOD

- A. Contractor shall (i) correct Non-conforming Work that becomes apparent during the progress of the Work or during the Guarantee to Repair Period and (ii) replace, repair, or restore to the City's satisfaction any other parts of the Work and any other real or personal property which is damaged or destroyed as a result of Non-conforming Work or correction of Non-conforming Work. Contractor shall promptly commence such correction, replacement, repair, or restoration upon notice from the City Representative, but in no case later than ten (10) days after receipt of such notice; and Contractor shall diligently and continuously prosecute such correction to completion. Contractor shall bear all costs of such correction, replacement, repair, or restoration, and all damages resulting from such Non-conforming Work, including without limitation additional testing, inspection, engineering, and compensation for City Representative's services and expenses (including the City's expenses at the labor rates included in the contracts between the City and the City's testing and inspection services). This Subparagraph shall not be interpreted to provide for recovery of attorney's fees.
- **B.** The term "Guarantee to Repair Period" means a period of two (2) years, unless a longer period of time is specified in the General Requirements or other Contract Documents or prescribed by applicable laws and regulations, commencing as follows:
 - 1. For any Work not described as incomplete in the Punch List / Final Completion, on the date of Substantial Completion.
 - 2. For space used or for separate systems fully utilized prior to Substantial Completion per Paragraph 9.07 (Partial Utilization), as established in a Notice of Partial Utilization.
 - 3. For all Work other than subparagraphs 8.03B.1 and B.2, above, from the date of Final Completion.
- C. The requirement to correct Non-conforming Work shall continue until one year after the date of correction of repaired or replaced items, or such longer period as may be specified in the Contract Documents or mutually agreed to by Contractor and City.
- D. If Contractor fails to commence correction of Non-conforming Work or fails to diligently prosecute such correction within 10 Working Days of the date of written notification from the City, the City may correct the Non-conforming Work in accordance with Paragraph 2.04 or may remove it and store the salvageable materials or equipment at Contractor's expense. If Contractor does not pay the costs of such removal and storage within five (5) Working Days after written notice, the City may sell, auction, or discard such materials and equipment. The City will credit Contractor's account for the excess proceeds of such sale, if any. The City will deduct from Contractor's account the costs of damages to the Work, rectifying the Non-conforming Work, removing and storing such salvageable materials and equipment, and discarding the materials and equipment, if any. If the proceeds fail to cover said costs and damages, the Contract Sum shall be reduced by the deficit. If the current Contract unpaid

Project Title:	eGSE Chargers and Infrastructure
Subject:	Equipment Ownership
Airport Code:	SFO
Airport Name:	San Francisco International Airport
Sponsor Name:	City and County of San Francisco
Airport Contact:	Ms. Tina Ko San Francisco International Airport P.O. Box 8097 San Francisco, CA 94128 <u>Tina.Ko@flysfo.com</u> 650-821-2826

The City and County of San Francisco (the City) is requesting Bay Area Air Quality Management District (BAAQMD) Carl Moyer Program funding in fiscal year (FY) 2020 for the purchase and installation of approximately 42 ground service equipment electric charging stations together with supporting electrical infrastructure (the Project) at San Francisco International Airport (the Airport or SFO). On behalf of the City, Haley & Aldrich, Inc. (Haley & Aldrich) is preparing this letter to notify BAAQMD that the City would permanently own and operate the electric charging stations and supporting electrical infrastructure after construction of the Project's components.

The proposed electric charging stations and supporting electrical infrastructure improvements would be permanently located at the Airport for the lifetime of the Project. The City would procure the equipment according to internal policy and procedures by preparing a solicitation (e.g., RFP) that would go out to bid in 2020. Once the bidder is selected, the City would issue a contract that details the requirements for implementation of the Project. As detailed in the attachment, the City would require a Final Settlement and Release of Claims for the contract issued for the Project. Once signed by the contract, a complete Final Settlement and Release of Claims would establish that all work under the contract has been complete. Once all work is complete and payments have been received by the contractor, the City would be 100% owner of the charging stations and associated electrical infrastructure. The attached exhibit is further explained below.

• **Exhibit 1** is the Final Settlement and Release of Claims that the City would issue to the contractor selected for the Project. This document details final payments due to the contractor and that work under the contract is complete. Once this document is complete by the contractor and final payments are received, the Project's components would be 100% owned by the City.

If there are any questions about the Project and the attached materials, please do not hesitate to contact Tina Ko at <u>Tina.Ko@flysfo.com</u>.

Attachment:

City Final Settlement and Release of Claims (Exhibit 1)

Carl Moyer Program January 2020 HALEY & ALDRICH .10 CMP Equipment Ownership

DOCUMENT 00 65 19 FINAL SETTLEMENT AND RELEASE OF CLAIMS

This Agreement and Release of Claims ("Agreement and Release") made and entered into this ______ day of ______, 20_____ by and between the CITY AND COUNTY OF SAN FRANCISCO, STATE OF CALIFORNIA, acting through its Airport Commission ("Commission"), and ______ ("Contractor"), whose place of business is at

RECITALS

- A. Contractor entered into Contract No. 11179.61, Boarding Area Ground Service Equipment Charging Stations Phase 1 (the "Contract"); and
- B. Work under the Contract has been completed and the Commission has issued a certificate of acceptance for the Work in accordance with San Francisco Administrative Code Section 6.22(k); and
- C. Contractor has submitted its final application for payment.

Now, therefore, it is mutually agreed between the Commission and Contractor as follows:

AGREEMENT

1. Contract accounting:

Original Contract Sum:	\$
Change Orders (through):	\$
Modified Contract Sum:	\$
Payments to Date (direct payments to Contractor):	\$
Amount Due before Adjustments for Offsets & Stop Notices:	\$
Offsets (e.g., OLSE forfeiture, non-conforming work, liquidated damages, etc.):	(\$)
Outstanding Stop Notices (withheld @ 125% of Stop Notice amounts):	(\$)
	
FINAL PAYMENT DUE CONTRACTOR:	\$
If there is an Escrow Account for Retention*:	\$
FINAL PAYMENT DUE CONTRACTOR: If there is an Escrow Account for Retention*: Retention Remaining in Escrow Account*:	\$ \$
FINAL PAYMENT DUE CONTRACTOR: If there is an Escrow Account for Retention*: Retention Remaining in Escrow Account*: Retention Release to Contractor from Escrow*:	\$ \$

2. Subject to the provisions hereof, the Commission shall forthwith pay to Contractor the sum of \$_______ under the Contract, less any amounts represented by the Notice to Withhold Funds on file with the Controller of the City and County of San Francisco, as of the date of such payment. Subject to the provisions hereof, the Commission shall forthwith instruct the Escrow Agent to release the sum of \$_____* to Contractor from the Escrow Account.

*If the City and Contractor have not entered into an Escrow Agreement for Security Deposits in Lieu of Retention (Document 00 62 76.19), enter "N/A" on all lines relating to the Escrow.

- 3. Contractor acknowledges and hereby agrees that there are no unresolved or outstanding claims in dispute against the City arising from the performance of the Work under the Contract, except for (i) the Disputed Claims described in Paragraph 4 below, and (ii) continuing obligations described in Paragraph 6, below. It is the intention of the parties in executing this Agreement and Release that, upon Contractor's receipt of the final payment and escrow release amounts identified in Paragraph 1, above, this Agreement and Release shall be effective as a final accord and satisfaction and a full, final and general release of all claims, demands, actions, causes of action, obligations, costs, expenses, damages, losses and liabilities of Contractor against the City, its boards and commissions, and all of its officers, agents, members, employees, authorized representatives, assignees and transferees except for the Disputed Claims set forth in Paragraph 4 below, and continuing obligations described in Paragraph 6 below.
- 4. The following claims are disputed (the "Disputed Claims"**) and are specifically excluded from the operation of this Agreement and Release:

Contract Claim			
No.	Date Submitted	Description of Claim	Amount of Claim

Nothing herein shall operate to toll, waive, or excuse Contractor's compliance with the Government Code Claim requirements under California Government Code Section 900, *et seq.*, and San Francisco Administrative Code Chapter 10 as to the Disputed Claims. Refer to Article 13 of Document 00 72 00 (General Conditions).

- 5. Consistent with California Public Contract Code Section 7100, Contractor hereby agrees that in consideration of the payment set forth in Paragraph 2, above, Contractor hereby releases and forever discharges the City, its boards and commissions, all of its officers, agents, members, employees, authorized representatives, assignees and transferees from any and all liability, claims, demands, actions or causes of action of whatever kind or nature arising out of or in any way concerned with the Work under the Contract, except for the Disputed Claims.
- 6. Guarantees and warranties for the Work, and any other continuing obligation of Contractor, shall remain in full force and effect as specified in the Contract Documents.
- 7. Contractor shall immediately defend, indemnify and hold harmless the City, its boards and commissions, and all of its officers, agents, members, employees, authorized representatives, assignees and transferees from any and all claims, demands, actions, causes of action, obligations, costs, expenses, damages, losses and liabilities that may be asserted against them by any of Contractor's Subcontractors and/or Suppliers of any tier and/or Suppliers to them for any and all labor, materials, supplies and equipment used, or contemplated to be used in the performance of this Contract.
- 8. Contractor hereby waives the provisions of California Civil Code Section 1542, which provides as follows:

A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS, WHICH THE CREDITOR DOES NOT KNOW OR SUSPECT TO EXIST IN HIS FAVOR AT THE TIME OF EXECUTING THE RELEASE, WHICH IF KNOWN BY HIM, MUST HAVE MATERIALLY AFFECTED HIS SETTLEMENT WITH THE DEBTOR.

**If Contractor has not submitted any claims in compliance with Article 13 of the General Conditions (Document 00 72 00), insert "NONE" on the first line of the Description of Claim column.

- 9. The provisions of this Agreement and Release are contractual in nature and not mere recitals and shall be considered independent and severable, and if any such provision or any part thereof shall be at any time held invalid in whole or in part under any Federal, State, county, municipal or other law, ruling or regulations, then such provision, or part thereof, shall remain in force and effect to the extent permitted by law, and the remaining provisions of this Agreement and Release shall also remain in full force and effect, and shall be enforceable.
- 10. All rights of the Commission shall survive the completion of the Work or termination of the Contract, and execution of this Release.

*** CAUTION: THIS IS A RELEASE - READ BEFORE EXECUTING ***

CITY AND COUNTY OF SAN FRANCISCO CONTRACTOR BY IT'S AIRPORT COMMISSION

BY:

Ivar C. Satero Airport Director BY: _____

Title

[INCLUDE THE FOLLOWING ONLY IF CONTRACTOR IDENTIFIES ONE OR MORE DISPUTED CLAIMS IN PARAGRAPH 4, ABOVE]

APPROVED AS TO FORM: Dennis J. Herrera, City Attorney

BY:

Daniel Edington Deputy City Attorney

END OF DOCUMENT

Aug 2019 Edition

Project Title:	eGSE Chargers and Infrastructure
Subject:	Geographic Location of the Project
Airport Code:	SFO
Airport Name:	San Francisco International Airport
Sponsor Name:	City and County of San Francisco
Airport Contact:	Ms. Tina Ko San Francisco International Airport P.O. Box 8097 San Francisco, CA 94128 <u>Tina.Ko@flysfo.com</u> 650-821-2826

The City and County of San Francisco (the City) is requesting Bay Area Air Quality Management District (BAAQMD) Carl Moyer Program funding in fiscal year (FY) 2020 for the purchase and installation of approximately 42 ground service equipment electric charging stations together with supporting electrical infrastructure (the Project) at San Francisco International Airport (the Airport or SFO). On behalf of the City, Haley & Aldrich, Inc. (Haley & Aldrich) is preparing this letter to notify BAAQMD of the geographic locations on which the Project would be located.

The proposed electric charging stations and supporting electrical infrastructure improvements would be permanently located at the Airport. The charging stations would be available and accessible to any Airport tenants that express interest. Information on the locations of the charging ports and supporting infrastructure are included in the attached application materials. The attached documents indicate the geographic locations on which the proposed charging stations and electrical infrastructure would be constructed. The following list describes the significance of documents included herein.

- **Exhibit 1** is a map that illustrates electric GSE charger locations at the international terminal Boarding Area G. In this attachment, the City identifies 10 charger locations to support the Project components.
- **Exhibit 2** depicts the electric GSE charger locations at domestic terminal Boarding Area D. The site plan includes 32 locations for charging stations and supporting electrical infrastructure.

If there are any questions about the Project and the attached materials, please do not hesitate to contact Tina Ko at <u>Tina.Ko@flysfo.com</u>.

Attachments:

Domestic Terminals Boarding Area G eGSE Locations (Exhibit 1) Domestic Terminals Boarding Area D eGSE Locations (Exhibit 2)

Carl Moyer Program January 2020 HALEY & ALDRICH .11 CMP Geographic Location of Project



Exhibit 1 Geographic Location of Project



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Exhibit 2 Geographic Location of Project

