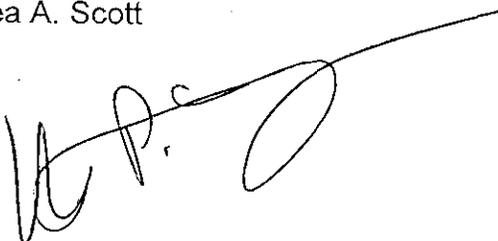


# Memorandum

To: Chair Robert B. Weisenmiller  
Commissioner Karen Douglas  
Commissioner David Hochschild  
Commissioner Andrew McAllister  
Commissioner Janea A. Scott

Date: October 5, 2016

From: Robert P. Oglesby  
Executive Director



Subject: **Approval of Los Angeles Department of Water and Power Emission Performance Standard Compliance Filing at October 19, 2016 Business Meeting**

On September 21, 2016, the Los Angeles Department of Water and Power (LADWP) submitted a compliance filing requesting the Energy Commission find that LADWP's covered procurement for the proposed natural gas-fired Intermountain Power Project (IPP) Repowering Project (Project) be determined to be compliant with the Energy Commission's Greenhouse Gases Emission Performance Standard (EPS), pursuant to Title 20 of the California Code of Regulations, Section 2900, et seq.

SB 1368 EPS limits long-term investments in baseload generation by the state's utilities to power plants that meet an EPS jointly established by the Energy Commission and the California Public Utilities Commission. The CO<sub>2</sub> emission rate limit is 1,100 pounds per megawatt-hour (MWh). The EPS establishes a public process for determining the compliance of proposed utility investments. Utilities are required to submit a compliance filing upon committing to an investment that is required to meet the EPS.

The Project will result in LADWP's complete divestiture of all coal-based fuel in its generation resources portfolio in 2025, two years earlier than is currently planned. LADWP acknowledges the ability to replace the coal units earlier than originally planned is contingent upon several factors, including permitting, material procurement, and final concurrence of all participants. Although LADWP is planning to complete the Project by 2025, the commercial operation date may be delayed due to circumstances beyond their control. A subsequent EPS filing will be necessary if the final design implementation is significantly different from one of three options described in the filing.

LADWP serves as IPP's operating agent. Other purchasers of IPP's energy include 23 Utah municipalities, 6 rural electric cooperatives, and 5 other California municipalities (Burbank, Glendale, Pasadena, Anaheim, and Riverside). The original power sales contract was signed on July 11, 1980 and expires on June 15, 2027.

A Second Amendatory Power Sales Contract, signed on March 16, 2016, allows the repowering of IPP's coal-fired generating units with up to 1,200 megawatts (MW) of EPS-compliant natural gas-fired combined cycle (NGCC) units by July 1, 2025. The contract expires on June 15, 2077. The Project will include two NGCC units, each with a design capacity of approximately 600 MW and an expected CO<sub>2</sub> emission rate of approximately 800 pounds of CO<sub>2</sub> per MWh.

LADWP staff provided vendor specifications for three potential NGCC designs. The Siting Division's Engineering Office staff calculated the expected CO<sub>2</sub> emission rates at various loads using the higher and lower heat inputs and associated capacities provided. Staff was able to duplicate the CO<sub>2</sub> emission rates to within 0 to 2 percent. Table 1 summarizes the Engineering Office's review of the 3 proposed NGCC designs.

Energy Commission staff completed a review of the filing and determined that the contract is compliant with the EPS pursuant to Section 2902(a); specifically, that the proposed NGCC power plant design in the compliance filing is below the EPS limit of 1,100 pounds per MWh. The NGCC units specified in the Second Amendatory Power Sales Contract meet the EPS. Therefore, staff recommends the Energy Commission find that the covered procurement described in the LADWP compliance filing complies with the Energy Commission's Greenhouse Gases EPS, Title 20, Section 2900 et seq.

Attachment

**Table 1: Supporting Greenhouse Gas Emission Calculations**

**GE 2x1 7F.04**

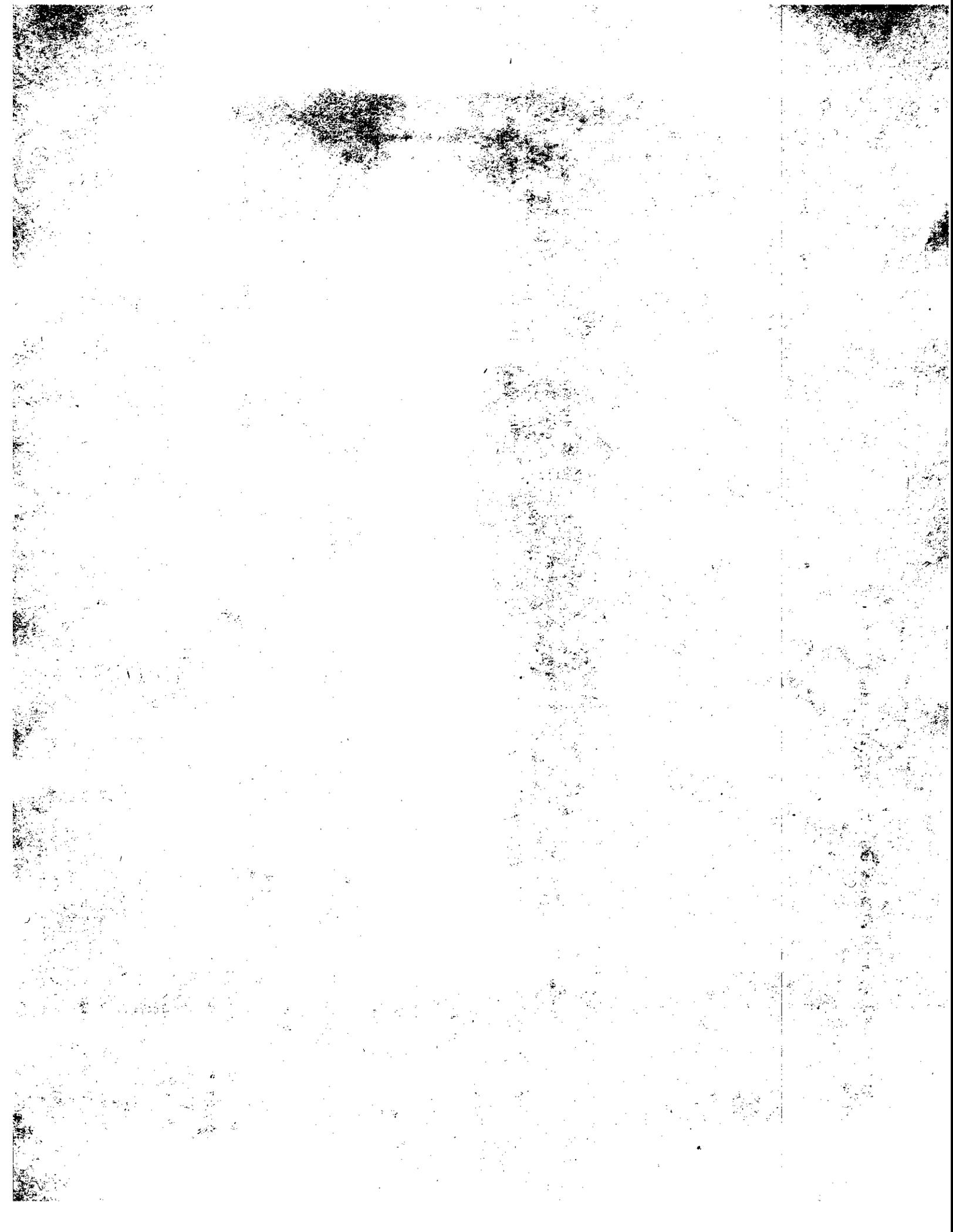
Load	GHG Emission Factor (lb/MMBtu)	Heat Input (MMBtu/h [LHV])	Heat Input (MMBtu/h [HHV])	GHG Emissions from LHV (lb/h)	GHG Emissions from HHV (lb/h)	Capacity (MW)	Calculated GHG Emission Rate from LHV (lb/MWh)	Calculated GHG Emission Rate from HHV (lb/MWh)	Manufacturer Provided GHG Emission Rate (lb/MWh)	Difference (%)
50%	117	1,908	2,099	223,236	245,560	300	744	819	811	1%
60%	117	2,192	2,411	256,464	282,110	360	712	784	776	1%
70%	117	2,501	2,751	292,617	321,879	420	697	766	759	1%
80%	117	2,828	3,111	330,876	363,964	480	689	758	751	1%
85%	117	2,981	3,279	348,777	383,655	508	687	755	748	1%
90%	117	3,214	3,535	376,038	413,642	540	696	766	759	1%
100%	117	3,669	4,036	429,273	472,200	600	715	787	780	1%

**Seimens 2x1 SCC6-5000F**

Load	GHG Emission Factor (lb/MMBtu)	Heat Input (MMBtu/h [LHV])	Heat Input (MMBtu/h [HHV])	GHG Emissions from LHV (lb/h)	GHG Emissions from HHV (lb/h)	Capacity (MW)	Calculated GHG Emission Rate from LHV (lb/MWh)	Calculated GHG Emission Rate from HHV (lb/MWh)	Manufacturer Provided GHG Emission Rate (lb/MWh)	Difference (%)
40%	117	2,203	2,423	257,751	283,526	310	831	915	918	0%
50%	117	2,430	2,673	284,310	312,741	361	788	866	870	0%
60%	117	2,646	2,911	309,582	340,540	411	753	829	832	0%
70%	117	2,864	3,150	335,088	368,597	461	727	800	803	0%
80%	117	3,093	3,402	361,881	398,069	511	708	779	782	0%
90%	117	3,342	3,676	391,014	430,115	563	695	764	767	0%
100%	117	3,619	3,981	423,423	465,765	616	687	756	759	0%

**Mitsubishi 2x1 M501GAC**

Load	GHG Emission Factor (lb/MMBtu)	Heat Input (MMBtu/h [LHV])	Heat Input (MMBtu/h [HHV])	GHG Emissions from LHV (lb/h)	GHG Emissions from HHV (lb/h)	Capacity (MW)	Calculated GHG Emission Rate from LHV (lb/MWh)	Calculated GHG Emission Rate from HHV (lb/MWh)	Manufacturer Provided GHG Emission Rate (lb/MWh)	Difference (%)
50% @ 12 °F	117	2,716	2,988	317,772	349,549	427	744	819	834	-2%
100% @ 12 °F	117	4,492	4,941	525,564	578,120	765	687	756	772	-2%
55% @ 47 °F	117	2,552	2,807	298,584	328,442	401	745	819	836	-2%
100% @ 47 °F	117	4,150	4,565	485,550	534,105	714	680	748	764	-2%
55% @ 95 °F	117	2,348	2,583	274,716	302,188	360	763	839	854	-2%
100% @ 95 °F	117	3,606	3,967	421,902	464,092	616	685	753	770	-2%
55% @ 105 °F	117	2,276	2,504	266,292	292,921	351	759	835	850	-2%
100% @ 105 °F	117	3,480	3,828	407,160	447,876	595	684	753	768	-2%



Los Angeles  Department of Water & Power

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BARBARA E. MOSCHOS, *Secretary*

DAVID H. WRIGHT  
General Manager

September 20, 2016

California Energy Commission  
EPS Compliance  
1516 Ninth Street  
Sacramento, CA 95814-512  
Attention: Compliance Filing

Subject: California Energy Commission Compliance Filing for the Intermountain Power  
Project Repowering Project

Dear Sir or Madam:

The Los Angeles Department of Water and Power (LADWP) hereby submits the attached Compliance Filing package, seeking California Energy Commission (CEC) approval of the Compliance Filing for the IPP Repowering as required by the Senate Bill (SB) 1368. The Intermountain Power Agency (IPA) holds legal title to the Intermountain Power Project (IPP), which includes two 900 MW (net) coal generating units located near Delta, Utah. The LADWP is IPA's Project Manager and Operating Agent for IPP. The LADWP, along with other municipal and cooperative entities (Purchasers), buy IPP's energy.

IPA, LADWP and the other Purchasers are now pursuing the IPP Repowering Project, which is scheduled to replace IPP's coal generating units with SB 1368 Emission Performance Standards (EPS) compliant Natural Gas Combined Cycle (NGCC) generating unit. The target date to replace the coal units is July 1, 2025, almost two years ahead of the June 15, 2027 expiration date of the current Power Sales Contracts between IPA and the Purchasers. However, the ability to meet this earlier date is contingent upon several factors, including permitting, material procurement and final concurrence of all 35 participants. Although LADWP is planning to complete the repowering project by 2025, the commercial operation date may be delayed due to circumstances beyond LADWP's control.

This project is a critical step towards achieving LADWP's goals of reducing its Greenhouse Gas (GHG) emissions and integrating additional renewable resources into its generation portfolio. This repowering will result in LADWP's complete divestiture of all coal based fuel in its portfolio of generation resources, opens up additional transmission capacity to deliver renewable generation, maintains the stability of the transmission system, and provides quick ramp rates that are essential for integration of renewable generation resources. If this Compliance Filing is not approved by the CEC, the IPP Repowering Project will not proceed, and the existing IPP coal generating units will continue to generate energy until June 15, 2027 (and potentially beyond).

Putting Our Customers First 

111 N. Hope Street, Los Angeles, California 90012-2607 Mailing Address: Box 51111, Los Angeles, CA 90051-5700  
Telephone (213) 367-4211 www.LADWP.com

The IPP Repowering Project is uniquely complex because of the number and geographical diversity of the Purchasers and the multiple contracts governing the scope and schedule of the Project. The goal is to build NGCC generating units that can meet the changing demands of utilities in both California and Utah and the changing generation requirements necessary for the successful integration of renewable variable energy resources.

**Background**

IPA, a political subdivision of the State of Utah, began construction of IPP in October 1981, with commercial operation of Unit 1 commencing in June, 1986 and of Unit 2 in May, 1987. Each Purchaser's share of IPP's generation was established by a Power Sales Contract, as entered into between IPA and the Purchasers. LADWP buys the largest share of IPP's generation. The Purchasers include 23 Utah municipalities, six Rural Electric Cooperatives, and six California municipalities as follows:

**UTAH MUNICIPAL  
PURCHASERS:**

Beaver  
Bountiful  
Enterprise  
Ephraim  
Fairview  
Fillmore  
Heber  
Holden  
Hurricane  
Hyrum  
Kanosh  
Kaysville  
Lehi  
Logan  
Meadow  
Monroe  
Morgan  
Mt. Pleasant  
Murray  
Oak City  
Parowan  
Price  
Spring City

**UTAH COOPERATIVE  
PURCHASERS:**

Bridger Valley REA  
Dixie-Escalante REA  
Flowell Electric Assoc.  
Garkane Power Assoc.  
Moon Lake Elec. Assoc.  
Mt. Wheeler Power, Inc.

**CALIFORNIA  
PURCHASERS:**

Anaheim  
Burbank  
Glendale  
LADWP  
Pasadena  
Riverside

Although the Power Sales Contracts will expire on June 15, 2027, those contracts require IPA to offer the Purchasers the right to continue participating in an IPP repowering beyond that date by entering into the Renewal Power Sales Contracts and the Agreement for Sale of Renewal Excess Power (Renewal Contracts).

After entering into the Renewal Contracts, all California Purchasers, except LADWP, have the right to terminate the contracts or to reduce their Generation Entitlement Share no later than November 1, 2019.

### **Description of the IPP Repowering Project**

Given IPA's obligation to offer the Purchasers a right to participate in an IPP repowering after the expiration of the current Power Sales Contracts, IPA, LADWP and the other Purchasers are now pursuing entering into Renewal Contracts, which would allow for energy procurement from NGCC generating units. IPA, with LADWP as Project Manager, is thus undertaking a natural gas repowering, defined in the Second Amendatory Power Sales Contract as the construction and installation of two NGCC power blocks, each with a design capacity of 600 MW.

Based on the generation power blocks currently available on the market, there are three (3) options for this generation output and generation type, as summarized in Attachment A.

Purchasers who choose to enter into the Renewal Contracts must obtain all Regulatory Contract Approvals, defined in the Renewal Power Sales Contracts as "all governmental regulatory approvals, consents and authorizations required or necessary" for the Purchaser to execute, perform under and be bound by the Renewal Power Sales Contract. If any Regulatory Contract Approval is denied a Purchaser, including one by the CEC, the Renewal Power Sales Contract for that Purchaser will be void.

### **Compliance Filing**

Pursuant to 20 CCR § 2900 *et seq.*, of the California Code of Regulations, adopted by the CEC to implement Senate Bill 1368, the LADWP hereby submits the attached Compliance Filing. In submitting this filing, LADWP respectfully requests that the CEC determine that the IPP Repowering Project pursuant to the Second Amendatory Power Sales Contract is in compliance with the EPS regulations promulgated by the CEC.

On June 2, 2015, the LADWP Board of Water and Power Commissioners (Board), at a noticed public meeting consistent with the requirements of the Ralph M. Brown Act ("Brown Act" Cal. Govt. Code § 54950 *et seq.*) approved and authorized the execution and delivery of the Second Amendatory Power Sales Contract, which allows the repowering of IPP's coal-fired generating

units with EPS-compliant NGCC units by July 2025, accelerating the coal divestiture date by two years, assuming Renewal Power Sales Contracts are thereafter in place.

On August 18, 2015, the Los Angeles City Council, at a noticed public meeting, approved and authorized the execution and delivery of the Second Amendatory Power Sales Contract, which ultimately went into effect on March 16, 2016.

Additionally, on May 29, 2015, LADWP also provided notice to the CEC of its intent to deliberate at its June 2nd, 2015 Board meeting on a covered procurement, the Renewal Contracts, which provide for the procurement of electricity from the Project until 2077, consistent with 20 CCR § 2908.

The CEC Compliance Filing is shown as Attachment A. Attachment B includes LADWP Board Resolution, approved on September 20, 2016. Attachment C is the attestation required by 20 CCR § 2909.

If the CEC has any questions or requests additional information regarding this coal divestiture and repowering with NGCC units, please contact Hamid V. Nejad, Director of Power and Fuel Purchase Division at 213-367-3273.

Sincerely,



Michael S. Webster  
Executive Director – Power System  
Engineering and Technical Services

Attachments

Attachment A

CALIFORNIA ENERGY COMMISSION  
EMISSION PERFORMANCE STANDARD COMPLIANCE FILING

DESCRIPTION OF IPP REPOWERING PROJECT

**Name of Facility:** Intermountain Power Project

**Location of Facility:** 850 W Brush Wellman Road, Delta Utah 84624

**Proposed Technology/Fuel:** Natural Gas-Fired Combined Cycle Generating Facility

**Planned Commercial Operation Date:** July 1, 2025\*

\* The ability to meet this date is contingent upon several factors, including permitting, material procurement and final concurrence of all participants. The commercial operation date may be delayed due to circumstances beyond LADWP's control.

**Generation Configuration Options:**

Since the Siemens and the Mitsubishi configurations exceed 600 MW each, they will be derated to 600 MW in order to meet the limitations defined by the project of a total maximum 1200 MW output. Duct firing is required for the GE units in order to reach a rated output of 600 MW at site. Preliminary Rated Capacity and CO<sub>2</sub> emission data were received from each respective vendor for the IPP Repowering Project at site conditions of: 51 °F, 60% RH, and an elevation of 4760 ft.

Prime Mover	2+1 Combined Cycle	2+1 Combined Cycle	2+1 Combined Cycle
Quantity	2	2	2
Manufacturer	GE	Siemens	Mitsubishi
Model	7F.04	SCC6-5000F	M501GAC
Rated Capacity (MW), at IPP Site	600 each, 1200 total, with duct firing	616 each, 1232 total	714 each, 1428 total
Capacity after Derate	Not applicable	600 each, 1200 total	600 each, 1200 total
Fuel Used	Natural Gas	Natural Gas	Natural Gas
EPS Compliant	Yes	Yes	Yes
Expected Operating Profile	See Figure 3	See Figure 3	See Figure 3
Expected energy output (MWh)	See Figure 3	See Figure 3	See Figure 3
Expected fuel use profile	See Figure 4	See Figure 5	See Figure 6
Estimated CO <sub>2</sub> emissions for site conditions, (lbs/MWh)	744, with duct firing	759	768
Estimated CO <sub>2</sub> emissions after derate	Not applicable	761	777

Figure 1 - Generation Configuration Options.

**Power Purchase Contract Terms**

**Name of Counter Party:** Intermountain Power Agency (IPA)

**Length of Contract:** 52 years

Duration: July 1, 2025 – June 15, 2077

Product: Energy (MWh)

Capacity for Project: 1200 MW<sup>1</sup>

Capacity for Participants: Below in Figure 2, is the current generation entitlement for each Participant of the current Power Sales Contracts. The final percentage share for each Participant for the Renewal Power Sales Contract will be determined based on many factors, including prior participation rates, number of final participants, and available percentages without commitment, among others.

CALIFORNIA PURCHASERS				
PURCHASER	SHARE TO BE DELIVERED	W/ EXCESS ENTITLEMENT SHARES (2015-12-18)	SHARE OF 1200 MW	SHARE OF 1200 MW PLUS ENTITLEMENT SHARES
Anaheim	13.225%	13.225%	159	159
Burbank	3.371%	4.167%	40	50
Glendale	1.704%	2.206%	20	26
LADWP	48.617%	66.785%	583	801
Pasadena	4.409%	6.000%	53	72
Riverside	7.617%	7.617%	91	91
GROUP TOTAL	78.943%	100.000%	947	1200
UTAH COOPERATIVE PURCHASERS				
GROUP TOTAL	7.017%	0.000%	84	0
UTAH MUNICIPAL PURCHASERS				
GROUP TOTAL	14.040%	0.000%	168	0
PURCHASER TOTAL	100.000%	100.000%	1200	1200

Figure 2 - Generation Distribution<sup>2</sup>

Expected Deliverables: Please refer to Figure 2

Must Take Provisions: Please refer to Figure 2

Dispatch Provisions: It is assumed that LADWP will continue its responsibilities as the Operating Agent for the repowered IPP units, and will continue to be responsible for the dispatch of the IPP units based on Participant and system demand.

Unit Contingency: N/A

<sup>1</sup> The Project size per the Second Amendatory Power Sales Contract is limited to 1200 MW. The Generation Scenarios listed above are based on the available generation sizes from the 3 respective vendors.

<sup>2</sup> This is based on the assumption that Participant's shares will be equal to its current Generation Entitlement Share in the existing Power Sales Contracts, and Excess Power Sales Contracts

**Expected Operating Profiles:**

A simulation of the load profile performed by LADWP staff is below in Figure 3 utilizing the GE configuration. The Siemens and Mitsubishi options will follow similar profiles as the heat rates and other characteristics are comparable, with higher plant energy outputs. The load profile was used to derive the average estimated energy output per year as shown below:

Energy Output (MWh): 6,635,768

The average annual capacity factor for all manufacturers is 63%.

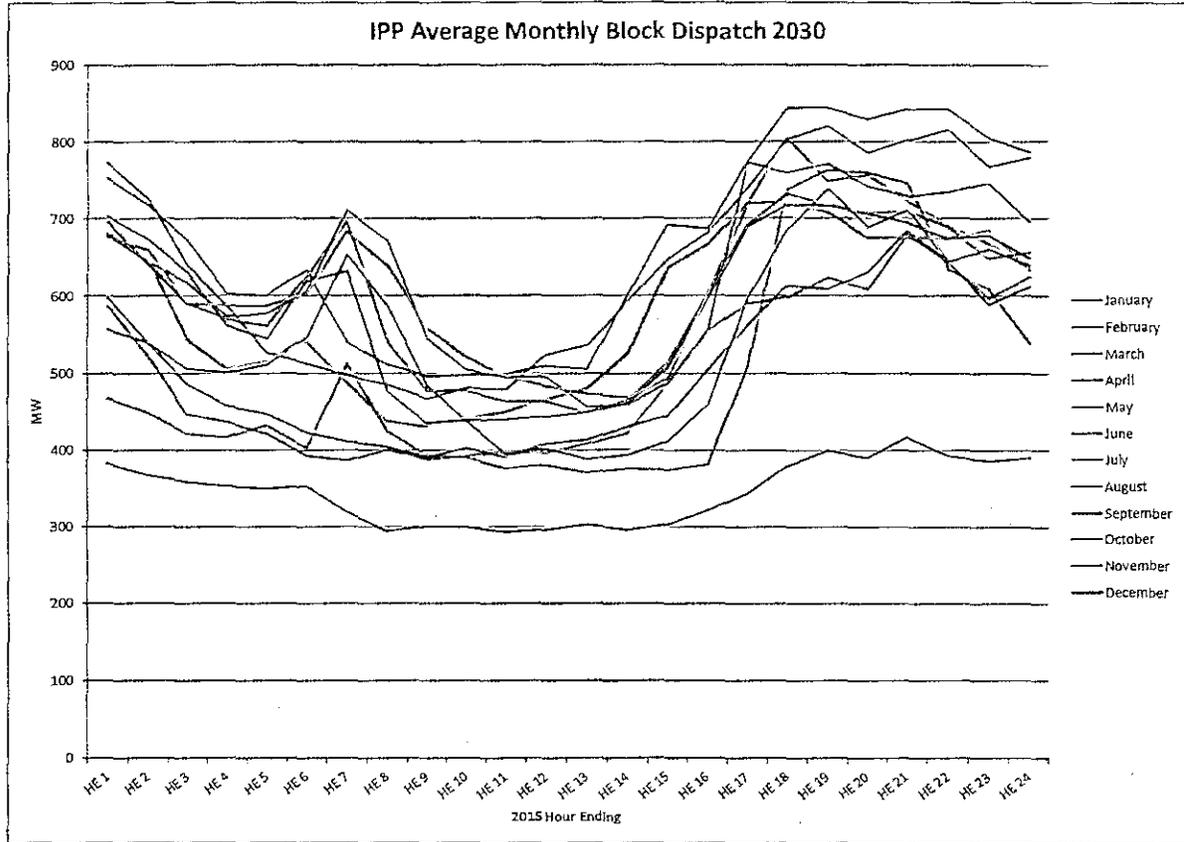


Figure 3 - Average Monthly Block Dispatch

**Expected Fuel Use Profile:**

Below is the preliminary fuel use data received from each respective vendor, estimated for the IPP site conditions.

GE - Estimated Combined Cycle Data for IPP Repowering								
All data estimated for site conditions, with duct firing, cooling towers								
2x1 7F.04								
Ambient Temperature	°F	51	51	51	51	51	51	51
Duct Firing		On	On	Off	Off	Off	Off	Off
Load		100%	90%	85%	80%	70%	60%	50%
Net Plant Output	MW	600	540	508	480	420	360	300
Heat Input (LHV)	MMBTU/h	3,669	3,214	2,981	2,828	2,501	2,192	1,908
CO2 Emissions	lbs/MWh	780	759	748	751	759	776	811

Figure 4 - GE Fuel Use Profile

Siemens - Estimated Combined Cycle Data for IPP Repowering								
All data estimated for site conditions, no duct firing, cooling towers								
2x1 SCC6-5000F								
Ambient Temperature	°F	51	51	51	51	51	51	51
Load		100%	90%	80%	70%	60%	50%	40%
Net Plant Output	MW	616	563	511	461	411	361	310
Heat Input (LHV)	MMBTU/h	3,619	3,342	3,093	2,864	2,646	2,430	2,203
CO2 Emissions	lbs/MWh	759	767	782	803	832	870	918

Figure 5 - Siemens Fuel Use Profile (received from vendors without derate)

Mitsubishi - Estimated Combined Cycle Data for IPP Repowering									
All data estimated for site conditions, no duct firing, cooling towers									
2x 1 M501GAC									
Ambient Temperature	°F	105	105	95	95	47	47	12	12
Load		100%	55%	100%	55%	100%	55%	100%	50%
Net Plant Output	MW	595	351	616	360	714	401	765	427
Heat Input (LHV)	MMBTU/h	3,480	2,276	3,606	2,348	4,150	2,552	4,492	2,716
CO2 Emissions	lbs/MWh	768	850	770	854	764	836	772	834

Figure 6 - Mitsubishi Fuel Use Profile (received from vendors without derate)

Data from Existing Plant – Apex Generating Station

Below in Figure 7 is data extracted from LADWP's Apex Generating Station located in Clark County, Nevada for the calendar year of 2015. The plant consists of a GE MS7000FA 527 MW 2x1 Combined Cycle generating station. The energy output for the plant in 2015 was 2,635,293 MWh, with a resultant capacity factor of 57%.

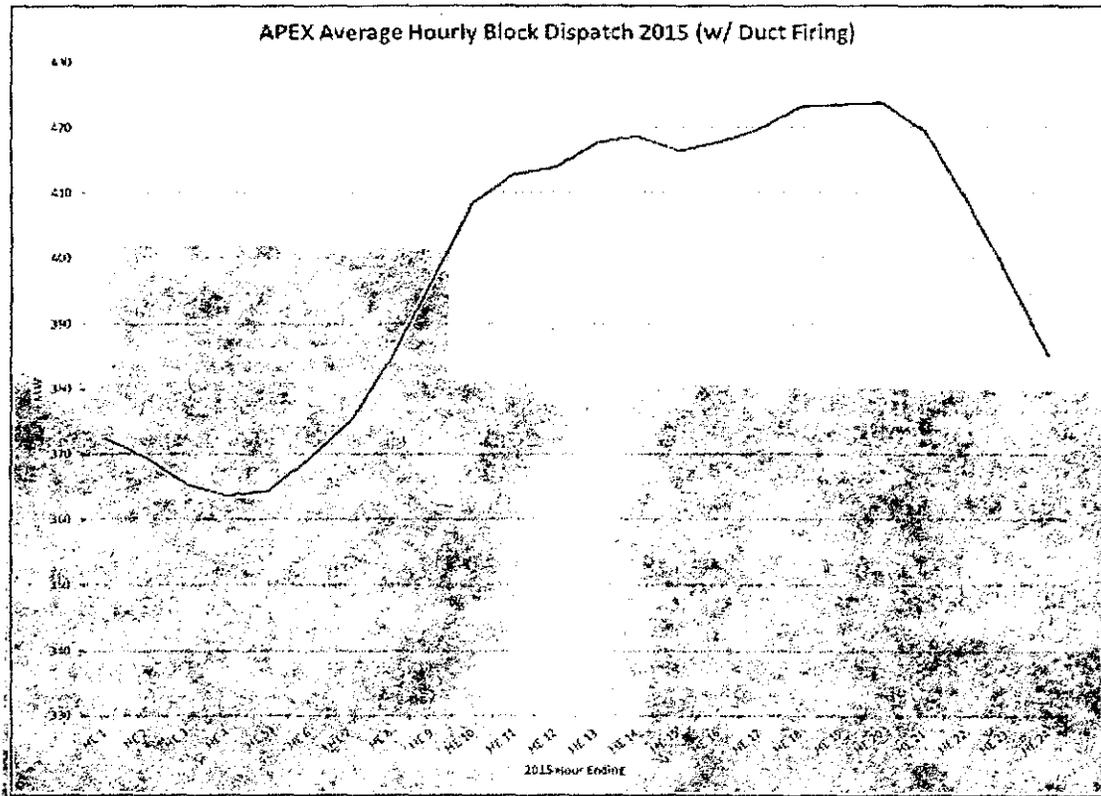


Figure 7 - Apex 2015 Load Profile

Apex - Data		100%	90%	80%	70%	60%	50%	40%	30%
Load									
Net Plant Output	MW	531	478	425	372	319	266	212	192
CO2 Emissions	lbs/MWh	884	835	841	856	886	939	1,031	1,084

Figure 8 - Apex 2015 Fuel Use Profile

WHEREAS, by Resolution No. 512 dated April 3, 1980, the Board of Water and Power Commissioners (Board) requested the Los Angeles City Council (City Council) to authorize the General Manager of the Los Angeles Department of Water and Power (LADWP) or designated representative to authorize the Board, in its discretion, to enter into LADWP Agreement No. 10437, Power Sales Contract, to purchase coal-fired generation from the Intermountain Power Project (IPP); and

WHEREAS, by Ordinance No. 153889, passed by the City Council on May 15, 1980, the City Council provided such authorization; and

WHEREAS, by Resolution 220 dated January 20, 1983, the Board authorized an Amendatory Power Sales Contract as an amendment to DWP Agreement No. 10437; and

WHEREAS, by Ordinance No. 157464, passed by the City Council on February 4, 1983, the City Council provided such authorization; and

WHEREAS, by Resolution 15-232 dated June 2, 2015, the Board authorized the Second Amendatory Power Sales Contract as an amendment to DWP Agreement No. 10437 and the delegation of authority to enter into the Renewal Power Sales contract and the Agreement for Sale of Renewal Excess Power (Renewal Contracts); and

WHEREAS, by Ordinance No. 183818, passed by the City Council on August 18, 2015, the City Council provided such authorization; and

WHEREAS, IPP has been operating as a coal-fired power plant for approximately 30 years, and LADWP has served as the Project Manager and Operating Agent on behalf of IPP's owner, the Intermountain Power Agency (IPA); and

WHEREAS, the Second Amendatory Power Sales Contract, which further amends DWP Agreement No. 10437, provides for the ability to repower IPP's fuel source from its current 1,800 Megawatts (MWs) net of coal-fired generation to no more than 1,200 MWs of EPS-compliant natural gas-fired combined cycle generation; and

WHEREAS, IPA requires that the purchasers receive all required governmental regulatory approvals and other required consents or approvals (including all approvals required by Purchaser's governing bodies) before entering into the Renewal Contracts; and

WHEREAS, the Project is subject to the California Energy Commission's (CEC) Emission Performance Standard regulations (EPS Regulations; 20 CCR § 2900 *et seq.*), including the requirement in 20 CCR § 2909 that a publicly-owned utility submit a compliance filing with the CEC within 10 business days of entering into a "covered procurement" as therein defined (Compliance Filing); and

WHEREAS, the EPS Regulations require that the Compliance Filing be first approved by the Board prior to submitting it to the CEC.

WHEREAS, based on the Board's knowledge, information or belief, the Compliance Filing does not contain a material misstatement or omission of fact and the Renewal Contracts comply with the EPS Regulations.

NOW, THEREFORE, BE IT RESOLVED, that the Compliance Filing now on file with the Secretary of the Board and approved as to form and legality by the City Attorney, be and the same are hereby approved.

BE IT FURTHER RESOLVED, that the President or Vice President of the Board, or the General Manager of the LADWP or such other person as the General Manager shall designate in writing, and the Secretary, Assistant Secretary or the Acting Secretary of the Board are hereby authorized and directed to execute and submit the Compliance Filing and any and all other related documents and instruments to the CEC.

I HEREBY CERTIFY that the foregoing is a full, true, and correct copy of the resolution adopted by the Board of Water and Power Commissioners of the City of Los Angeles at its meeting held SEP 20 2016

Barbara E. Anselmos  
Secretary

APPROVED AS TO FORM AND LEGALITY  
MICHAEL N. FEUER, CITY ATTORNEY

AUG 09 2016

BY

Vaughn Minassian  
VAUGHN MINASSIAN,  
DEPUTY CITY ATTORNEY

ATTACHMENT C

CALIFORNIA ENERGY COMMISSION  
EMISSION PERFORMANCE STANDARD COMPLIANCE FILING  
COMPLIANCE FILING ATTESTATION

I, the official named below, certify under penalty of perjury, the following:

1. I am an agent of the Los Angeles Department of Water and Power (LADWP) authorized by its Board of Water and Power Commissioners (Board) to sign this attestation on its behalf;
2. The Board has reviewed and approved in noticed public meetings both the covered procurement (on June 2, 2015) and the Compliance Filing (on September 20, 2016) to which this attestation is attached;
3. Based on the Board's knowledge, information, and belief, the Compliance Filing does not contain a material misstatement or omission of fact;
4. Based on the Board's knowledge, information, or belief, the covered procurement complies with Title 20, Division 2, Chapter 11, Article 1 of the California Code of Regulations; and
5. The covered procurement contains the contractual terms or conditions specifying that the contract or commitment is void and all energy deliveries shall be terminated no later than the effective date of any CEC decision pursuant to 20 CCR § 2910 that the covered procurement fails to comply with 20 CCR § 2900 *et seq.*

Executed this 20th day of September, 2016, at Los Angeles, California.

APPROVED AS TO FORM AND LEGALITY  
MICHAEL N. FEUER, CITY ATTORNEY

SEP 20 2016

BY

VAUGHN MINASSIAN  
DEPUTY CITY ATTORNEY

*Michael S. Webster*

Michael S. Webster  
Executive Director – Power System  
Engineering and Technical Services

**CALIFORNIA ENERGY COMMISSION**

1516 Ninth Street  
Sacramento, California 95814

**STATE OF CALIFORNIA  
ENERGY RESOURCES CONSERVATION  
AND DEVELOPMENT COMMISSION**

IN THE MATTER OF:	)	DOCKET NO. 16-EPS-01
	)	[PROPOSED] ORDER NO.
	)	
LADWP EMISSION PERFORMANCE STANDARD	)	
COMPLIANCE FILING	)	
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**I. INTRODUCTION**

Pursuant to Public Utilities Code section 8341(e)(1), the Energy Commission established a greenhouse gases emission performance standard (EPS) of 1,100 pounds carbon dioxide per megawatt hour, as codified in Title 20 of the California Code of Regulations, sections 2900 et seq. The Energy Commission is responsible for reviewing all long-term financial commitments entered into by local publicly owned electric utilities for compliance with the EPS.

**II. FINDINGS**

a. On September 21, 2016, the Los Angeles Department of Water and Power (LADWP) submitted a compliance filing requesting that the Energy Commission find that LADWP’s Second Amendatory Power Sales Contract (contract) with the Intermountain Power Agency (IPA) for electricity from the Intermountain Power Project (IPP) Repowering Project, which involves replacing the existing coal facility as LADWP’s source of generation with a new natural gas-fired combined cycle power plant, be determined to be compliant with the EPS;

b. On September 26, 2016, Energy Commission staff submitted a review of LADWP’s filing and found it complete. Based on its review, staff recommended that the procurement be found to be in compliance with the EPS; and

c. The Energy Commission concurs with staff’s recommendation that LADWP’s compliance filing is complete and that the contract with IPA, as described in the compliance filing, complies with the EPS.

**III. CONCLUSION AND ORDER**

The California Energy Commission hereby adopts staff’s recommendation and orders that the long-term financial commitment described in LADWP’s compliance filing complies with the Energy Commission’s Greenhouse Gases Emission Performance Standard, as codified in Title 20 of the California Code of Regulations, sections 2900 et seq. Should the final design significantly change from the specifications provided in the compliance filing, LADWP must submit a subsequent compliance filing providing the updated information.

## **CERTIFICATION**

The undersigned Secretariat to the Commission does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of the California Energy Commission held on October 19, 2016.

AYE:

NAY:

ABSENT:

ABSTAIN:

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Cody Goldthrite, Secretariat  
California Energy Commission