

# Update on Implementation Plans Submitted by Merchant Generators and Next Steps

**Statewide Advisory Committee on  
Cooling Water Intake Structures**  
for Implementation of the Policy on the  
Use of Coastal and Estuarine Waters  
for Power Plant Cooling

*Tuesday, July 5, 2011  
Sacramento*

Dominic Gregorio.  
Division of Water Quality  
State Water Resources Control Board



# Implementation of OTC Policy

Date	Event
October 1, 2010	OTC Policy Effective
November 30, 2010	SWRCB sends letter to generators requesting that they submit implementation plans
December 31, 2010	CAISO and LADWP submits grid reliability reports
February 7, 2011	Informational stakeholder meeting to address questions on the implementation plans and required interim measures
April 1, 2011	Generators submit implementation plans
April 8, 2011	First meeting of SACCWIS
October 1, 2011	SACCWIS reviews the implementation plans and report their recommendations to the SWRCB

# Content of Implementation Plans

The Implementation Plan must include:

- The selected compliance alternative (retirement, Track 1, or Track 2);
- Measures to implement the alternative (dry cooling, wet cooling, other);
- An implementation schedule; and
- Other requested information

# Overview of Implementation Plans for Merchant Fossil-fueled Power Plants

- 14 affected facilities in total
- Three of the 14 facilities are already in compliance:
  - Humboldt Bay – re-powered with air cooling
  - Potrero – retired
  - South Bay – retired
- The remaining 11 facilities have 35 power-generating units currently using OTC

# Overview of Implementation Plans for Merchant Fossil-fueled Power Plants

- 2 out of 35 units will **retire** (Contra Costa)
- 2 out of 35 units will either **retire** or switch to **Track 1 - wet cooling** (Pittsburg)
- 19 out of 35 units will either **retire** or switch to **Track 1 - dry cooling** (El Segundo, Alamitos, Huntington Beach, Redondo Beach, and Units 1-3 of Encina)
- 12 out of 35 units will either **retire** or pursue **Track 2** controls (Moss Landing, Morro Bay, Mandalay, Ormond Beach, and Units 4&5 of Encina)

# Proposed Implementation Schedules

- 24 out of 35 units will meet compliance deadlines
- 11 out of 35 units requested extensions
  - Extensions range from 2 to 16 years longer than current policy deadlines

# Proposed Implementation Schedules

Facility	Owner	Unit	SWRCB Compliance Date	New Proposed Compliance Date	Report of Waste Discharge Required	Design Flow (MGD)	Existing Capacity (MW)
Contra Costa	GenOn	6	12/31/2017	<b>2013</b>	No	440	337
		7	12/31/2017				337
Pittsburg	GenOn	5	12/31/2017		Yes	506	312
		6	12/31/2017				317
Mandalay	GenOn	1	12/31/2020		No	253	215
		2	12/31/2020				215
Ormond Beach	GenOn	1	12/31/2020		No	685	741
		2	12/31/2020				775

# Proposed Implementation Schedules

Facility	Owner	Unit	SWRCB Compliance Date	New Proposed Compliance Date	Report of Waste Discharge Required	Design Flow (MGD)	Existing Capacity (MW)
Moss Landing	Dynegy	1	12/31/2017	<b>2032</b>	756	361	510
		2	12/31/2017				510
		6	12/31/2017			754	
		7	12/31/2017			865	
Morro Bay	Dynegy	3	12/31/2015		Yes	668	325
		4	12/31/2015				325



# Proposed Implementation Schedules

Facility	Owner	Unit	SWRCB Compliance Date	New Proposed Compliance Date	Report of Waste Discharge Required	Design Flow (MGD)	Existing Capacity (MW)
Alamitos	AES	1	12/31/2020	2022	495	207	175
		2	12/31/2020				175
		3	12/31/2020	2024		392	332
		4	12/31/2020				498
		5	12/31/2020			674	498
		6	12/31/2020				498
Huntington Beach	AES	1	12/31/2020	2022	227	514	226
		2	12/31/2020				226
		3	12/31/2020	2012			225
		4	12/31/2020				225
Redondo Beach	AES	5	12/31/2020	2022	496	217	179
		6	12/31/2020				175
		7	12/31/2020	2018?		675	493
		8	12/31/2020				493

# Proposed Implementation Schedules

Facility	Owner	Unit	SWRCB Compliance Date	New Proposed Compliance Date	Report of Waste Discharge Required	Design Flow (MGD)	Existing Capacity (MW)
Encina	NRG	1	12/31/2017				106
		2	12/31/2017				103
		3	12/31/2017		329	857	109
		4	12/31/2017				299
		5	12/31/2017				
El Segundo	NRG	3	12/31/2015	2011			335
		4	12/31/2015	2017	Yes	399	335

# Questions?

