

APPENDIX 8.3D

DPR-523 for the Humboldt Bay Power Plant

State of California — The Resources Agency
 DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # _____
 HRI # _____
 Trinomial _____
 NRHP Status Code _____
 Other Listings _____
 Review Code _____ Reviewer _____ Date _____

Page 1 of 7 *Resource Name or #: (Assigned by recorder) _____ PL-1

P1. Other Identifier: PG&E Humboldt Bay Power Plant

*P2. Location: Not for Publication Unrestricted *a. County Humboldt

- *b. USGS 7.5' Quad Fields Landing Date 1959 revised 1972 T4N; R1W; SW ¼ of Sec 8; M.D.B.M
- c. Address 1000 King Salmon Avenue City Eureka, CA Zip n/a
- d. UTM: Zone 10, Point A = 397895 m E & 4510915 m N; Point B = 397995 m E & 4510740 m N; Point C = 397660 m E & 4510550 m N; Point D = 397560 m E & 4510730 m N.
- e. Other Locational Data: From the intersection of Highway 101 and King Salmon Ave., approximately 5 miles south of Eureka, Humboldt Bay Power Plant is to the east of King Salmon Ave. along the north side of the slough channel.

*P3a. Description: This site consists of the PG&E Humboldt Bay Power Plant. The facility is comprised of two fossil fuel units (Units 1 & 2) which were completed in 1956 and 1958, and a small General Electric boiling water nuclear reactor which came into service in 1963 (Unit 3). Unit 3 was shut down in 1976 for routine refueling and seismic retrofit work. After the Three Mile Island nuclear accident in 1979 new standards were initiated by the Nuclear Regulatory Commission which required compliance prior to licensing. PG&E decided that the costs associated with the seismic retrofit and the new licensing standards made the unit unfeasible so it started the decommissioning process of the nuclear facility in 1983. Several other support buildings and structures are associated with the facility and its three power generation units including fuel oil storage tanks, a 60 kv switchyards, a water intake canal, a discharge canal, effluent and acid storage ponds, storage buildings, offices, railroad spur, a guard house and security buildings.

*P3b. Resource Attributes: HP9 Public Utility Buildings & Facilities

*P4. Resources Present: Building
 Structure Object Site District
 Element of District Other (Isolates, etc.)

P5b. Description of Photo: Overview NW of Units 1, 2 & 3 at the PG&E Humboldt Bay Power Plant, view west

*P6. Date Constructed/Age and Source: 1956 to present
 Historic Prehistoric Both

*P7. Owner and Address: PG&E, 1000 King Salmon Way, Humboldt County, CA.

*P8. Recorded by: Will Shapiro; Pacific Legacy, Inc., 3081 Alhambra Dr. Suite 208, Cameron Park, CA 95682

*P9. Date Recorded: 4-10-06
 *P10. Survey Type: Phase I Inventory

*P11. Report Citation: Application for Certification for the PG&E Humboldt Bay



Repowering Project. Prepared by CH2MHill for PG&E (2006)

*Attachments: NONE Location Map Sketch Map Continuation Sheet Building, Structure, and Object Record
 Archaeological Record District Record Linear Feature Record Milling Station Record Rock Art Record
 Artifact Record Photograph Record Other (List): _____

*Resource Name or # (Assigned by recorder): Humboldt Bay Power Plant

D1. Historic Name: Humboldt Bay Power Plant

D2. Common Name: Humboldt Bay Power Plant

***D3. Detailed Description** (Discuss overall coherence of the district, its setting, visual characteristics, and minor features. List all elements of district.):

The Humboldt Bay Power Plant is a power generation facility consisting of two fossil-fired steam turbine units (Units 1 and 2) and a currently inoperable nuclear boiling water reactor steam turbine unit (Unit 3), located on a 143-acre site near Eureka, California. Support facilities include administration buildings, shops, storage buildings, large fuel tanks, a railroad spur, an electrical substation, several 60 kV transmission lines, one 115 kV transmission line, and cooling water intake and discharge channels. Portions of the property outside of the fenced "owner-controlled area" are undeveloped natural areas or wetlands.

***D4. Boundary Description** (Describe limits of district and attach map showing boundary and district elements.):

The district boundary is the same as the PG&E "Owner-Controlled Area." This is the fenced in area that contains the power plant and appurtenant facilities. This area is approximately 70 acres.

***D5. Boundary Justification:**

The district boundary contains all of the elements of the power plant that contribute to its use as a power generation facility.

***D6. Significance: Theme:** Nuclear power, thermal power development

Area: 70 acres

Period of Significance: 1963-1984

Applicable Criteria: A, C

(Discuss district's importance in terms of its historical context as defined by theme, period of significance, and geographic scope. Also address the integrity of the district as a whole.)

The Cultural Resources Study for the PG&E Humboldt Bay Power Plant ISFSI Licensing Project (PAR 2003), makes the case that Unit 3 (the nuclear unit) of the Humboldt Bay Power Plant meets the criteria for listing in the National Register as an exceptionally significant property (less than 50 years old) because of its status as one of the first nuclear power plants constructed in the United States, the fact that it was the first nuclear plant proposed that clearly demonstrated economic feasibility/superiority over alternatives possible in this region, and because of its revolutionary design and construction methods. This study does not evaluate the property as a whole or Units 1 and 2 individually for significance.

D7. References (Give full citations including the names and addresses of any informants, where possible.):

Pacific Gas & Electric Company. 2003. Environmental Report, Independent Spent Fuel Storage Installation. Submitted to the Nuclear Regulatory Commission. Prepared by PG&E, San Francisco.

PAR Environmental Services. 2003. Cultural Resources Study for the PG&E Humboldt Bay Power Plant ISFSI Licensing Project. Submitted to the Nuclear Regulatory Commission. Prepared by PG&E, San Francisco. Prepared by PAR Environmental Services, Sacramento, CA.

***D8. Evaluator:** Not evaluated

Date:

Affiliation and Address:

BUILDING, STRUCTURE, AND OBJECT RECORD

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*NRHP Status Code

*Resource Name or # (Assigned by recorder) Railroad spur to Humboldt Bay Power Plant

- B1. Historic Name: Element of Humboldt Bay Power Plant District
- B2. Common Name: Element of Humboldt Bay Power Plant District
- B3. Original Use: Storage building
- B4. Present Use: Storage building

*B5. **Architectural Style:** Utilitarian, concrete block or concrete slab

*B6. **Construction History:** (Construction date, alterations, and date of alterations)

Constructed in the early 1950s as part of Humboldt Bay Power Plant (possibly present in 1955 aerial photograph, before Unit 3 constructed). Currently used for caustic storage. There is a later (time unknown) metal addition on the northeast side.

*B7. **Moved?** No Yes Unknown **Date:** **Original Location:**

*B8. **Related Features:**

Constructed to serve construction and operation of the Humboldt Bay Power Plant

B9a. Architect:

b. Builder:

*B10. **Significance: Theme:** Power Generation

Area:

Period of Significance: 1963-1984

Property Type: nuclear power plant

Applicable Criteria: A,C

(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

The Cultural Resources Study for the PG&E Humboldt Bay Power Plant ISFSI Licensing Project (PAR 2003), makes the case that Unit 3 (the nuclear unit) of the Humboldt Bay Power Plant meets the criteria for listing in the National Register as an exceptionally significant property (less than 50 years old) because of its status as one of the first nuclear power plants constructed in the United States, the fact that it was the first nuclear plant proposed that clearly demonstrated economic feasibility/superiority over alternatives possible in this region, and because of its revolutionary design and construction methods. This study does not evaluate the property as a whole or Units 1 and 2 individually for significance.

The integrity of this property is excellent. It is in current use and regularly maintained.

B11. Additional Resource Attributes: (List attributes and codes): HP9 – Public Utility Building

*B12. **References:** PAR Environmental Services. 2003. Cultural Resources Study for the PG&E Humboldt Bay Power Plant ISFSI Licensing Project. Submitted to the Nuclear Regulatory Commission. Prepared by PG&E, San Francisco. Prepared by PAR Environmental Services, Sacramento, CA.

B13. Remarks: Part of the Humboldt Bay Power Plant (a collection of related properties making up a district).

*B14. **Evaluator:** Not evaluated

*Date of Evaluation:

(This space reserved for official comments.)



BUILDING, STRUCTURE, AND OBJECT RECORD

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*NRHP Status Code

*Resource Name or # (Assigned by recorder) Railroad spur to Humboldt Bay Power Plant

- B1. Historic Name: Element of Humboldt Bay Power Plant District
B2. Common Name: Element of Humboldt Bay Power Plant District
B3. Original Use: Transmission tower
B4. Present Use: 115 kV transmission line from Mobile Emergency Power Plants (MEPPs)

*B5. Architectural Style: NA/Utilitarian

*B6. Construction History: (Construction date, alterations, and date of alterations)

Constructed in 1962-63 as part of Humboldt Bay Power Plant Unit 3. This site consists of a single, steel lattice-type electrical transmission conductor support tower

*B7. Moved? No Yes Unknown Date: Original Location:

*B8. Related Features:

Constructed to serve construction and operation of the Humboldt Bay Power Plant Unit 3

B9a. Architect:

b. Builder:

*B10. Significance: Theme: Power Generation

Area:

Period of Significance: 1963-1984

Property Type: nuclear power plant

Applicable Criteria: AC

(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

The Cultural Resources Study for the PG&E Humboldt Bay Power Plant ISFSI Licensing Project (PAR 2003), makes the case that Unit 3 (the nuclear unit) of the Humboldt Bay Power Plant meets the criteria for listing in the National Register as an exceptionally significant property (less than 50 years old) because of its status as one of the first nuclear power plants constructed in the United States, the fact that it was the first nuclear plant proposed that clearly demonstrated economic feasibility/superiority over alternatives possible in this region, and because of its revolutionary design and construction methods. This study does not evaluate the property as a whole or Units 1 and 2 individually for significance.

The integrity of this property is excellent. It is in current use and regularly maintained.

B11. Additional Resource Attributes: (List attributes and codes): HP11 Engineering Structure

*B12. References: PAR Environmental Services. 2003. Cultural Resources Study for the PG&E Humboldt Bay Power Plant ISFSI Licensing Project. Submitted to the Nuclear Regulatory Commission. Prepared by PG&E, San Francisco. Prepared by PAR Environmental Services, Sacramento, CA.

B13. Remarks: Part of the Humboldt Bay Power Plant (a collection of related properties making up a district).

*B14. Evaluator: Not evaluated

*Date of Evaluation:

(This space reserved for official comments.)



BUILDING, STRUCTURE, AND OBJECT RECORD

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***NRHP Status Code**

*Resource Name or # (Assigned by recorder) Railroad spur to Humboldt Bay Power Plant

- B1. Historic Name: Element of Humboldt Bay Power Plant District
- B2. Common Name: Element of Humboldt Bay Power Plant District
- B3. Original Use: Railroad spur
- B4. Present Use: Abandoned and covered

*B5. Architectural Style: NA/Utilitarian

*B6. Construction History: (Construction date, alterations, and date of alterations)

Constructed some time during the early 1950s to serve construction and/or operation of the Humboldt Bay Power Plant. Not present in 1954 before Units 1 and 2 constructed. Clearly present in 1955.

This site consists of an abandoned railroad spur of the Northwestern Pacific Railroad grade which extends into PG&E's Humboldt Bay Power Plant facility. The Northwestern Pacific Railroad grade line extends northeast to southwest along the western edge of the PG&E property line of the facility. The railroad spur extends from the main line heading west-southwest into the western portion of the facility.

*B7. Moved? No Yes Unknown Date: Original Location:

*B8. Related Features:

Constructed to serve construction and operation of the Humboldt Bay Power Plant

B9a. Architect:

b. Builder:

*B10. Significance: Theme: Power Generation

Area:

Period of Significance: 1963-1984

Property Type: nuclear power plant

Applicable Criteria: A, C

(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

The Cultural Resources Study for the PG&E Humboldt Bay Power Plant ISFSI Licensing Project (PAR 2003), makes the case that Unit 3 (the nuclear unit) of the Humboldt Bay Power Plant meets the criteria for listing in the National Register as an exceptionally significant property (less than 50 years old) because of its status as one of the first nuclear power plants constructed in the United States, the fact that it was the first nuclear plant proposed that clearly demonstrated economic feasibility/superiority over alternatives possible in this region, and because of its revolutionary design and construction methods. This study does not evaluate the property as a whole or Units 1 and 2 individually for significance.

The integrity of this property is poor. The railroad spur has been abandoned and has not been in use for several years. The western most portion of the spur is obstructed by gravels and the construction of a storage building in the eastern portion of the PG&E facility.

B11. Additional Resource Attributes: (List attributes and codes)

*B12. References: PAR Environmental Services. 2003. Cultural Resources Study for the PG&E Humboldt Bay Power Plant ISFSI Licensing Project. Submitted to the Nuclear Regulatory Commission. Prepared by PG&E, San Francisco. Prepared by PAR Environmental Services, Sacramento, CA.

B13. Remarks: Part of the Humboldt Bay Power Plant (a collection of related properties making up a district).

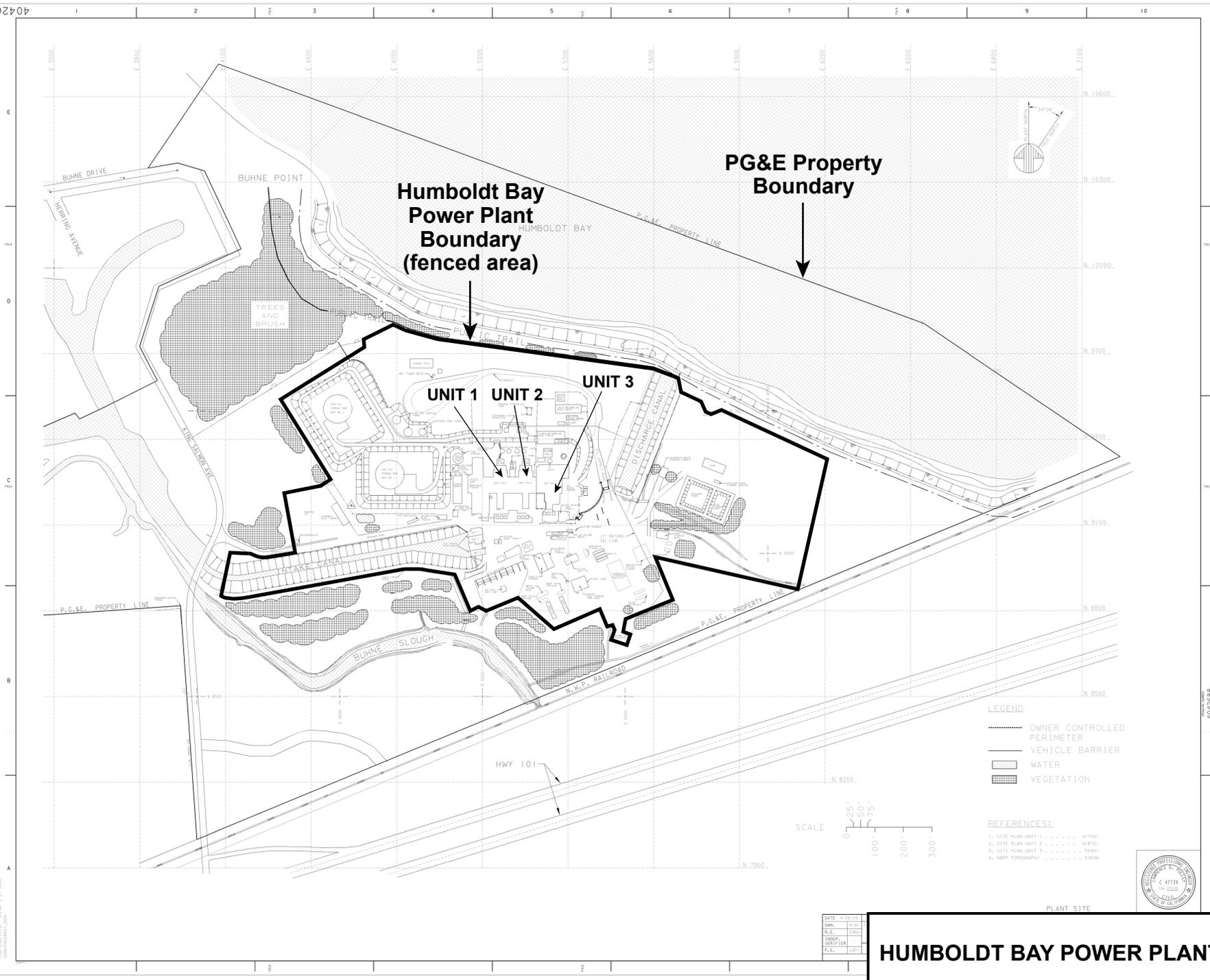
*B14. Evaluator: Not evaluated

*Date of Evaluation:

(This space reserved for official comments.)



4042688



- LEGEND**
- OWNER CONTROLLED PERIMETER
 - VEHICLE BARRIER
 - ▭ WATER
 - ▨ VEGETATION

- REFERENCES:**
1. SITE PLAN UNIT 1 417001
 2. SITE PLAN UNIT 2 418701
 3. SITE PLAN UNIT 3 554401
 4. SBPP TOPOGRAPHY 53606

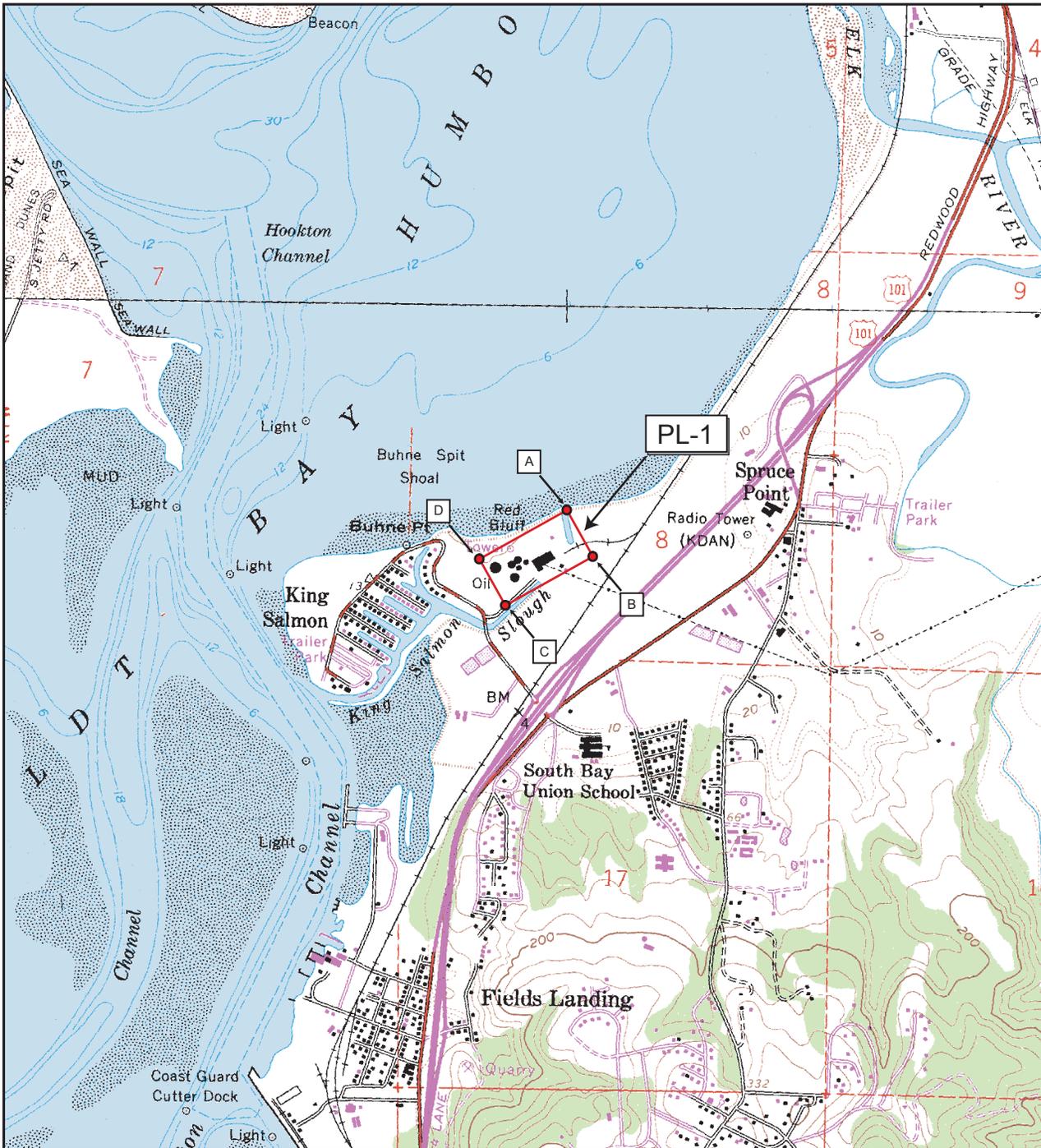


DATE	8/20/06
DRAWN	TRIP
CHECKED	EMH
INSP. VERIFIER	EMH
P.L.	EMH

PLANT SITE

HUMBOLDT BAY POWER PLANT

CH2MHILL



USGS 7.5' Fields Landing and Eureka
 SCALE: 1:24,000.

