

1 **4.10 CULTURAL RESOURCES**

2 This section analyzes the potential impacts of the Proposed Project on cultural
3 resources. Cultural resources consist of places or objects that are valued for scientific,
4 historical, or religious reasons. Cultural resources include prehistoric archaeological
5 sites, architectural remains, historic remains, shipwrecks, isolated artifacts, and other
6 material objects that provide evidence of past human activities. Certain places may be
7 protected as important cultural resources because of their value to a culture for
8 traditional and religious reasons.

9 **4.10.1 Description of Resource/Environmental Setting**

10 The area of potential effect (APE) is the 11-acre (5-ha) project area that includes the
11 buried cooling water conduits that extend from the power plant into the Pacific Ocean
12 and the area of disturbance from disposition activities.

13 **Regional Overview**

14 The prehistoric sequence commonly applied to northern San Diego County, e.g., Reddy
15 and Byrd 1997, consists of three major periods. The first is the Paleoindian period
16 (11,500-8500 years before present [B.P.]), a time in which adaptations were formerly
17 believed to have been focused on the hunting of large game but are now recognized to
18 represent more generalized hunting and gathering, with considerable emphasis on
19 marine resources (Erlandson and Colten 1991; Jones 1991; Erlandson 1994). Because
20 throughout this period much more of the continental shelf was exposed due to lowered
21 sea levels, it is widely recognized that Paleoindian sites must have been inundated by
22 Holocene sea level rise and now lie offshore.

23 The following period, the Archaic (8500-1300 B.P.), is traditionally seen as
24 encompassing both a coastal and an inland focus, with the coastal Archaic represented
25 by the shell middens of the La Jolla complex and the inland Archaic represented by the
26 Pauma complex. Coastal settlement is also seen as having been significantly affected
27 by the stabilization of sea levels around 4,000 years ago that led to a general decline in
28 the productivity of coastal ecosystems. Nevertheless, recent research on MCB Camp
29 Pendleton has documented continued occupation along the coast well after this decline
30 was in progress (Byrd and Reddy 2002). The Late Prehistoric period (1300-200 B.P.) is
31 marked by the appearance of small projectile points indicating the use of the bow and
32 arrow, the common use of ceramics, and the replacement of inhumations with
33 cremations, all characteristic of the San Luis Rey complex as defined by Meighan
34 (1954). The San Luis Rey complex is divided temporally into San Luis Rey I and
35 San Luis Rey II, with the latter distinguished mainly by the addition of ceramics. When

1 Europeans arrived in southern California, what is now northern San Diego County was
2 occupied by Takic-speaking groups known to the Spanish as the Luiseño, whose
3 territory is thought to have comprised some 1,500 square miles (3,885 km²) of coastal and
4 interior southern California (White 1963).

5 The arrival of Spanish explorers in 1769 was followed by the establishment of Mission
6 San Juan Capistrano in 1776. Spanish colonial period shipping in the area would have
7 been infrequent, although ships may have anchored near Dana Point to bring
8 passengers or supplies to Mission San Juan Capistrano. According to Richard Henry
9 Dana, pirate ships reportedly visited the area in the late eighteenth and early nineteenth
10 centuries. Commercial shipping increased during the twentieth century, and several
11 shipwrecks occurred in the area (see below). It is also reported that the north coast of
12 San Diego County was used during Prohibition (1920-1933) to transfer loads of liquor
13 from boats to caches in the Santa Margarita Mountains (Schaefer 1997).

14 **Prehistoric Offshore Setting**

15 Since the height of the last glaciation about 18,000 years ago, warming climates have
16 melted much of the polar ice caps and resulted in rapidly rising sea levels. This sea
17 level rise has been accompanied by marine transgressions that have covered much of
18 the continental shelf (Curry 1965; Inman 1983). It has long been recognized that
19 because the now-inundated portions of the shelf were likely occupied by humans during
20 late Pleistocene and early Holocene, the terrestrial archaeological record is necessarily
21 incomplete since many early cultural sites must now lie offshore (Kraft et al. 1983;
22 Moratto 1984; Carbone 1991).

23 Recent findings along the coast of southern and central California have provided
24 evidence that the submerged archaeological record is more substantial than previously
25 supposed. First, the continuing accumulation of very early radiocarbon dates from
26 coastal southern California increasingly demonstrates a significant human presence
27 throughout the region during the terminal Pleistocene and earliest Holocene. For
28 example, radiocarbon dating of both archaeological deposits and skeletal material has
29 confirmed human presence on the Channel Islands as early as about 13,000 years ago
30 (Johnson et al. 2001; Rick et al. 2001), while mainland coastal sites now reveal
31 occupation well in excess of 9,000 years (Macko 1998; Jones et al. 2002). More
32 importantly, these findings seem to show that a coastal gathering economy was in place
33 very early on, suggesting that ancient coastlines may have been a focus of settlement
34 (Jones et al. 2002). Finally, contrary to the common assumption that the marine
35 transgression would have destroyed nearly all archaeological components on the
36 continental shelf, recent sediment coring along the coast of San Diego County has

1 revealed good potential for site preservation where paleoestuaries provided low-energy
2 depositional environments (Pettus and Hildebrand 2000).

3 Although prehistoric cultural materials are unusually abundant off the coast of
4 San Diego County, nearly all consist of stone bowls or mortars (Masters and Schneider
5 2000). Most of these locations are concentrated off La Jolla and Point Loma, with
6 relatively few in the northern portion of the county. While a few of these locations near
7 the shore may be the *in situ* remnants of flooded prehistoric habitations, most are
8 interpreted as having eroded from bluff top sites or as having been dropped from
9 watercraft while fishing in kelp bed and rocky reef habitats (Masters 1983, 1985;
10 Masters and Schneider 2000).

11 The Proposed Project area does not appear to be in a sensitive location for submerged
12 prehistoric archaeological resources. Situated in an open coastal setting some distance
13 south of the San Onofre Creek paleochannel and estuary, it would be exposed to
14 considerable wave action during the Holocene marine transgression and appears
15 unlikely to contain intact prehistoric deposits. Moreover, submerged artifact locations
16 are more typically found at rocky headlands than in sandy bottom conditions such as
17 the project area (Masters 1983, 1985). No prehistoric artifact locations are recorded
18 near the project area (Pierson et al. 1987), and any undisturbed onshore prehistoric
19 archaeological sites would be located well outside the project APE. All onshore areas
20 adjacent to the project have been substantially altered due to the development of
21 SONGS Units 1, 2, and 3.

22 **Historic Resources**

23 Submerged historic properties include sunken ships, boats, and other vessels such as
24 barges; cargo or fittings such as anchors lost from vessels; sunken navigational
25 equipment such as buoys; sunken aircraft; and various sorts of industrial equipment
26 related to activities such as offshore oil development.

27 Shipwreck data maintained by the CSLC, as well as other published sources (Marshall
28 1978; Pierson 1980; Pierson et al. 1987), suggest that six known historic shipwrecks lie
29 within 10 miles (16 km) of the project area. These shipwrecks are described below and
30 listed in Table 4.10-1.

1 **Table 4.10-1. Shipwrecks**

Shipwrecks					
Vessel Name	Vessel Type	Built	Lost	Displacement (tons)	Location/Loss Situation
Agram	---	---	5/18/40	---	Wrecked at San Clemente
Stranger	Oil Screw	1918	7/17/48	90	4 miles west of San Onofre
Onward	Oil Screw	1919	1950	51	---
Western Pilot	Oil Screw	1933	1933	113	8 miles SSW of Dana Pt.
Kitty-A	---	1856	1941	---	Sunk at San Mateo Point
Nerda	Barge	1918	1936	53	6 miles off of San Clemente

2

3 • The *Agram* is recorded as having sunk at San Clemente in 1940 (Marshall 1978).
4 No particulars on the vessel are available. The plotted location directly along the
5 beach is assessed as probably being within 1 mile (2 km) of the actual location,
6 which could potentially place the wreck within the project site (CSLC database).
7 However, the wreck may have been salvaged (Pierson 1980).

8 • The *Kitty-A* is recorded as having sunk “at San Mateo Pt.” in 1941 (Pierson et al.
9 1987); the only additional information on this vessel is that she was built in 1856.

10 • The *Stranger* is recorded as having sunk 4 miles (6 km) west of San Onofre in
11 1948 (Marshall 1978). This 90-ton (82-metric ton) oil screw vessel was built in
12 1918; no other particulars are available, except that Pierson (1980) indicates part
13 of the cargo was salvaged. The plotted location is assessed as probably being
14 within 1 mile (2 km) of the actual location. This distance would potentially place
15 the wreck within the project site (CSLC database). According to Pierson (1980),
16 however, the wreck has only been pinpointed within 10 nautical miles (12 miles).

17 • The *Western Pilot*, a 113-ton (103-metric ton) oil screw vessel, was built in 1933
18 and burned and sank 8 miles (13 km) south-southwest of Dana Point in 1953
19 (CSLC database). In some records *Western Pilot* is referred to as *Western Point*
20 (Pierson et al. 1987).

21 • The *Onward*, a 51-ton (46-metric ton) oil screw vessel, was built in 1919 and
22 burned and sank in 1950; latitude and longitude readings place it near the
23 *Western Pilot* (CSLC database). If this is correct, the location description
24 “5 miles southwest of Catalina Harbor” (CSLC database) is incorrect; it would be
25 more than 20 miles (32 km) east of Catalina Harbor.

- 1 • The *Nerda*, a 53-ton (48-metric ton) barge, was built in 1918 and lost in 1936,
2 6 miles (10 km) off San Clemente (Pierson et al. 1987).

3 The project site has been directly examined by several teams of divers and has been
4 subjected to two side scan sonar testing surveys. Although these surveys were not
5 specifically conducted to examine cultural resources, no cultural resources were
6 observed in the area during these surveys. Review of both the underwater video and
7 the side scan sonar data has revealed no evidence for historic cultural sites within the
8 project area. Finally, the seafloor within the APE was substantially altered 40 years ago
9 when the offshore conduits were constructed; no shipwrecks were identified at that time,
10 and any smaller historic artifacts would have been obliterated by the project
11 construction activities at that time.

12 **4.10.2 Regulatory Setting**

13 **Federal**

14 A number of Federal statutes, regulations, and rules govern the protection of cultural
15 resources in the project area, including:

- 16 • the Antiquities Act of 1906;
- 17 • the National Historic Preservation Act of 1966;
- 18 • Executive Order 11593;
- 19 • the Archaeological and Historic Preservation Act of 1979;
- 20 • the American Indian Religious Freedom Act of 1978; and
- 21 • the Shipwreck Preservation Act of 1987.

22 **State**

23 The pertinent State legislation and local plans that govern the protection of cultural
24 resources in the project area include:

- 25 • the CEQA and the State CEQA Guidelines (Sections 21083.2 and 21084.1 and
26 Appendix K);
- 27 • the CCC Guidelines for Permitting Archaeological Investigations;
- 28 • CSLC policies and procedures;

- 1 • the Native American Heritage Commission Guidelines (1989); and
- 2 • the State Historic Preservation Officer (SHPO)-published checklists that are
- 3 broadly applicable: (1) adequacy of archaeological testing programs,
- 4 (2) determinations of site significance and uniqueness, and (3) mitigation reports.

5 **4.10.3 Significance Criteria**

6 Thresholds of significance for cultural resource impacts for the project are defined as
7 situations where disposition activities could:

- 8 • result in damage to, the disruption of, or adversely affect a property that is listed
- 9 in the California Register of Historical Resources (CRHR) or a local register of
- 10 historical resources per Section 5020.1 of the Public Resources Code;
- 11 • cause damage to, disrupt, or adversely affect an important prehistoric or historic
- 12 archaeological resource (including shipwrecks) such that its integrity could be
- 13 compromised or eligibility for future listing on the CRHR diminished; or
- 14 • cause damage to or diminish the significance of an important historical resource
- 15 such that its integrity could be compromised or eligibility for future listing on the
- 16 CRHR diminished.

17 Any damage to a cultural resource determined to be “important” based on the criteria
18 outlined above would be considered a significant impact.

19 **4.10.4 Impact Analysis and Mitigation**

20 The APE includes the 11-acre (5-ha) project area only; any offsite activities (concrete
21 recycling, etc.) would occur at existing permitted facilities. The potential impacts of the
22 Proposed Project were assessed through the following process: (1) defining the agents
23 or causes of impact from the Proposed Project; (2) outlining the APE of the Proposed
24 Project; (3) identifying the location of any known cultural resources in the project vicinity;
25 (4) identifying the sensitivity or likelihood of the occurrence of significant cultural
26 resources within the APE; and (5) evaluating the significance of those resources and
27 assessing the degree to which the project would affect their significant aspects.

28 A records search was conducted at the South Coastal Information Center at San Diego
29 State University to identify recorded cultural resources in the vicinity of the project area.
30 Shipwreck data maintained by the CSLC were also consulted as well as other published
31 sources. Cultural resources data maintained by the Office of Environmental Security at
32 MCB Camp Pendleton were also examined.

1 Impact CUL-1. Effects on Archaeological Resources, including Shipwrecks

2 Activities could damage, disrupt, or adversely affect a CRHR property or diminish
3 the quality of an important prehistoric or historic archaeological resource or a
4 historical resource such that its integrity or eligibility for future CRHR listing
5 would be diminished (Class III)

6 Although there are no known archaeological resources in the APE, two types of
7 prehistoric remains may occur within the water depths associated with the project site.
8 These include: (1) *in situ* prehistoric remains that pre-date the Holocene Transgression
9 and that are situated on relict, submerged landforms, either mantled with
10 unconsolidated marine sediments or exposed on bedrock outcrops; and (2) remains
11 deposited subsequent to the Holocene marine transgression and situated on the
12 seafloor or within unconsolidated recent sediments. These remains would consist
13 primarily of isolated prehistoric and historic artifacts.

14 Although historic shipwrecks are recorded in the general vicinity of the project area,
15 none have been physically located and their precise locations are unknown. Because
16 the condition of the wrecks or the extent of possible salvage is unknown, their National
17 Register of Historic Places (NRHP) eligibility cannot be determined. Based on available
18 information, the likelihood that shipwrecks are located within the project area is remote
19 and unrecorded wrecks within the project site are unlikely. The project site is not
20 located on an approach to a major shipping or fishing port, which diminishes the
21 probability of ship or fishing boat wrecks. There is, however, a small boat harbor at
22 Dana Point. Thus, aside from the larger vessels for which records are likely to have
23 been kept, numerous small recreational boats, e.g., sailboats, motorboats, have
24 frequented this stretch of the coast and continue to do so. Sinkings may have occurred,
25 but it is likely that most would be less than 50 years old.

26 As discussed above, underwater surveys, which included side-scan sonar, did not
27 identify historic resources in the project area. No magnetometer survey has been
28 conducted in the area, and it is possible that the strong sea surges that characterize the
29 southern California coast could have obscured wreck remains with sand. However, this
30 is unlikely due to the shallow sand in the project area, and because obvious wreck
31 remains are not present within the project site.

32 The Proposed Project would be undertaken in areas that are underlain by bedrock and
33 covered by sand. The project area is a high-energy, dynamic environment in which the
34 cover of sand is readily moved by waves and currents. Because of these conditions,
35 the presence of intact prehistoric cultural deposits within the project area is very

1 unlikely. Moreover, any isolated prehistoric artifacts within the project area are likely to
2 have been redeposited by waves and currents.

3 The Proposed Project would only involve excavation of backfilled sediment and rock
4 riprap that had been placed in the alignment when the offshore conduits were
5 constructed approximately 40 years ago. Any shipwreck remains or prehistoric cultural
6 material in the affected area would therefore have been obliterated by the installation of
7 the conduits. The proposed disposition is considered a less than significant impact
8 (Class III). No mitigation is required.

9 Table 4.10-2 summarizes the cultural resources impacts and mitigation measures.

10 **Table 4.10-2. Summary of Cultural Resources Impacts and Mitigation Measures**

Impact	Mitigation Measures
CUL-1: Effects on Archaeological Resources, including shipwrecks	No mitigation required

11

12 **4.10.5 Alternatives**

13 **4.10.5.1 Complete Removal of Conduits Alternative**

14 **Impact CUL-ALT-1. Effects on Archaeological Resources, including Shipwrecks**

15 **Activities could damage, disrupt, or adversely affect a CRHR property or diminish**
16 **the quality of an important prehistoric or historic archaeological resource or a**
17 **historical resource such that its integrity or eligibility for future CRHR listing**
18 **would be diminished (Class III)**

19 This alternative would only involve excavation of backfilled sediment and rock riprap
20 that had been placed in the alignment when the offshore conduits were constructed
21 approximately 40 years ago. Any shipwreck remains or prehistoric cultural material in
22 the affected area would therefore have been obliterated by the installation of the
23 conduits. As with the Proposed Project, this alternative would have a less than
24 significant impact on cultural resources (Class III). No mitigation is required.

25 **4.10.5.2 Removal of Nearshore Components Alternative**

26 **Impact CUL-ALT-2. Effects on Archaeological Resources, including Shipwrecks**

27 **Activities could damage, disrupt, or adversely affect a CRHR property or diminish**
28 **the quality of an important prehistoric or historic archaeological resource or a**

1 **historical resource such that its integrity or eligibility for future CRHR listing**
2 **would be diminished (Class III).**

3 This alternative would only involve excavation of backfilled sediment and rock riprap
4 that had been placed in the alignment when the offshore conduits were constructed
5 approximately 40 years ago. Any shipwreck remains or prehistoric cultural material in
6 the affected area would therefore have been obliterated by the installation of the
7 conduits. As with the Proposed Project, this alternative would have a less than
8 significant impact on cultural resources (Class III). No mitigation is required.

9 **4.10.5.3 Crush Conduits and Remove Terminal Structures Alternative**

10 **Impact CUL-ALT-3. Effects on Archaeological Resources, including Shipwrecks**

11 **Activities could damage, disrupt, or adversely affect a CRHR property or diminish**
12 **the quality of an important prehistoric or historic archaeological resource or a**
13 **historical resource such that its integrity or eligibility for future CRHR listing**
14 **would be diminished (Class III).**

15 This alternative would only involve excavation of backfilled sediment and rock riprap
16 that had been placed in the alignment when the offshore conduits were constructed
17 approximately 40 years ago. Any shipwreck remains or prehistoric cultural material in
18 the affected area would therefore have been obliterated by the installation of the
19 conduits. As with the Proposed Project, this alternative would have a less than
20 significant impact on cultural resources (Class III). No mitigation is required.

21 **4.10.5.4 Artificial Reef Alternative**

22 **Impact CUL-ALT-4. Effects on Archaeological Resources, including Shipwrecks**

23 **Activities could damage, disrupt, or adversely affect a CRHR property or diminish**
24 **the quality of an important prehistoric or historic archaeological resource or a**
25 **historical resource such that its integrity or eligibility for future CRHR listing**
26 **would be diminished (Class III).**

27 This alternative would involve the emplacement of reef materials on the surface of the
28 seafloor. Because undisturbed areas of the seafloor within the artificial reef area are
29 mantled by Holocene-age sediments, Pleistocene-age deposits would remain
30 undisturbed. This alternative therefore would have a less than significant impact on
31 cultural resources (Class III).

1 4.10.5.5 No Project Alternative

2 Impact CUL-ALT-5. Effects on Archaeological Resources, including Shipwrecks

3 This alternative would involve no disturbance of offshore sediments and would have no
4 impact on cultural resources (Class III). No mitigation is required.

5 4.10.6 Cumulative Projects Impacts Analysis

6 None of the previously discussed cumulative projects involved underwater construction
7 activities offshore; therefore, the Proposed Project, in conjunction with known projects,
8 would not contribute to any adverse cumulative effect on cultural resources.

9 4.10.7 References

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