CALIFORNIA COASTAL COMMISSION

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Energy and Ocean Resources

Staff:

JJL, SMH—SF

Staff Report:

February 24, 2000

Hearing Date: March

March 16, 2000

STATUS REPORT ON SONGS MITIGATION PROGRAM

Following is a brief status report for the mitigation projects required in Southern California Edison Company's (SCE) coastal development permit for the San Onofre Nuclear Generating Station (SONGS) Units 2 and 3 (permit no. 6-81-330, formerly 183-73). The conditions originally were adopted by the Commission in 1991 to mitigate the adverse impacts of the power plant on the marine environment. In 1993, the Commission added a requirement for the permittee to partially fund construction of an experimental fish hatchery. The Commission has since approved amendments to the conditions in April 1997 and October 1998.

WETLAND RESTORATION MITIGATION

The Project

Condition A of the permit requires the permittee to create or substantially restore a minimum of 150 acres of wetlands to mitigate for impacts to fishes caused by the operation of SONGS. In April 1997, the Commission reaffirmed its 1992 approval of the permittee's choice of the San Dieguito River Valley as the site for the wetland restoration project and allowed for up to 35 acres credit for enhancement at San Dieguito Lagoon.

Progress Report

Following the Commission's November 1997 approval of SCE's preliminary wetland restoration plan, the wetland restoration mitigation project has been undergoing a planning and environmental review process which incorporates the mitigation project into the overall San Dieguito River Valley Regional Open Space Park project and includes additional wetland restoration required under the permittee's settlement agreement with the Earth Island Institute. The lead agencies for the CEQA/NEPA environmental review are the San Dieguito River Valley Regional Open Space Park Joint Powers Authority (JPA) and U.S. Fish and Wildlife Service.

The permit conditions require SCE to submit a final restoration plan that substantially conforms to the preliminary restoration plan unless the CEQA/NEPA review concludes that an alternative plan that meets the conditions for minimum standards

and objectives is the environmentally superior alternative. The permit conditions, as amended by the Commission in October 1998, contain specific due dates for SCE's submittal of the final restoration plan and coastal development permit application based on a completion of the CEQA/NEPA environmental review process around August 1999. The EIR/S team has worked diligently and cooperatively to resolve the many significant issues raised during this process; however, the additional detailed analyses that have been undertaken to address these issues have significantly delayed completion of the EIR/S. Notwithstanding the specific due dates, the permit requires SCE to submit the final restoration plan within 60 days following the JPA's certification of the EIR and the U.S. Fish and Wildlife Service's record of decision adopting the EIS. The staff is working with SCE to determine a more precise schedule for SCE's submittal of the final restoration plan and coastal development permit application.

The draft EIR/S was released on January 31, 2000. CEQA review notice was made at that time, and NEPA review notice appeared in the February 4, 2000 Federal Register. A public hearing will be held on February 28, 2000, at the Del Mar City Hall Annex (235 11th Street, Del Mar) from 7 p.m. until close of comments. The public review period will continue through March 20, 2000. For information on where to review the document, or to request a copy on CD, contact the San Dieguito River Park at 858-674-2275 extension 18, or check the River Park's website at www.sdrp.org.

KELP REEF MITIGATION

The Project

Condition C of the permit requires construction of an artificial reef that will consist of an experimental reef and a larger mitigation reef. The experimental reef must be a minimum of 16.8 acres and the mitigation reef must be of sufficient size to sustain 150 acres of medium to high density kelp bed community. The purpose of the experimental reef is to determine what combination of substrate type and substrate coverage will best achieve the performance standards specified in the permit. The design of the mitigation reef will be contingent on the results of the experimental reef.

In April 1997, the Commission added the requirement for a payment of \$3.6 million to the State's Ocean Resource Enhancement and Hatchery Program (OREHP) to fund a mariculture/marine fish hatchery to provide compensation for resources not replaced by the artificial mitigation reef. SCE has fully satisfied this requirement.

Progress Report

Following completion of the environmental review and permitting processes for the reef mitigation, SCE began construction of the artificial reef on August 18, 1999, and completed the 56-module reef on September 29, 1999.

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Shortly after construction, the physical dimensions of each module were monitored on the surface using differential GPS. In addition, the outline (also termed the "footprint") and the percent cover of reef material on each module was monitored with high-resolution side scanning sonar. As a final check, each module was inspected by divers to estimate vertical relief and the degree of overlapping or piling up. SCE presented the results of construction monitoring of the first 24 modules to the staff in September. The staff found that the footprints and percentage covers of the modules conformed very closely to the design specifications. Construction monitoring for the remaining modules has been completed; staff will review those results shortly.

The staff has been conducting field and analytical work to determine the locations of reference sites in nearby natural kelp forests. This work has resulted in a decision to use three reference sites in both the San Mateo and Barn kelp beds. The staff has obtained consensus from SCE's consulting biologists on the appropriateness of using San Mateo and Barn kelp beds as reference areas for the artificial reef experiment. Spatial data on the long-term abundance of giant kelp collected using down-looking sonar together with diver surveys are being used to identify the precise location of the three reference sites in each of the two kelp beds. Once identified, the staff will forward the coordinates of all six reference sites to SCE for comment.

The staff completed installing permanent transect lines on each module in mid-November 1999 and began monitoring the abundance of giant kelp and sediment depth on the artificial reef modules in February 2000. The staff continued assembling the materials, equipment and personnel necessary for post-construction monitoring of the experimental reef and reference sites.

FISH BEHAVIORAL MITIGATION

The Project

Condition B requires the permittee to install and maintain behavioral barrier devices at SONGS to reduce fish impingement losses.

Progress Report

Following the permittee's experiments on light and sound devices, the permittee considered fish guidance lights to be more effective in preventing fish from being trapped and killed. In October 1998, the Executive Director approved the permittee's installation plan for the lights and the lights were installed in December 1998.

Monitoring to evaluate the effectiveness of the fish guidance lights began in March 1999 and is continuing. Initial data seemed to indicate that rather than attracting fish to the fish return system the lights are repelling the fish. A new experiment was initiated to evaluate whether eliminating light could be used as an effective means of reducing impingement losses of fish. This experiment was recently completed and the staff are currently analyzing data from it.

MARINE MAMMALS AND SEA TURTLES

In December 1999, the staff updated information on the mortality of marine mammals (harbor seals and sea lions) at SONGS first presented to the Commission in May 1997 and presented new information on the entrainment of sea turtles at SONGS. The staff also reported on the next steps to be taken to minimize these deaths and entrainments.

The staff met with the Commission's Scientific Advisory Panel in January 2000 to determine and arrange for filling of data gaps. In cooperation with SCE and other involved agencies and interested parties, the staff will assemble a working group of scientific experts to more fully explore possible ways of minimizing the entrainment and deaths of harbor seals, sea lions and sea turtles, and hopes to report back to the Commission on the results of this working group in summer of 2000. In the interim, staff will continue to work with SCE and others to see if there are any other potential changes that can be made to reduce marine mammal mortality and will keep the Commission informed.