

September 23, 2008

Mr. Steve J. Redeker, Manager  
Plant Closure & Decommissioning  
Sacramento Municipal Utility District  
14440 Twin Cities Road  
Herald, CA 95638-9799

SUBJECT: RANCHO SECO NUCLEAR GENERATING STATION - APPROVAL OF FINAL STATUS SURVEY REPORT 3

Dear Mr. Redeker:

By letter dated May 14, 2008, Sacramento Municipal Utility District submitted final status survey reports (FSSRs) for the following Rancho Seco Nuclear Generating Station survey units:

- 1000001, 2, 3 Effluent Corridor – three class 2 survey units. The effluent corridor consisted of the open land area bordering “No Name Creek” which was the liquid effluent pathway during plant operation. The survey units had surface areas of 8339, 7744, and 5202 m<sup>2</sup> respectively.
- 1000004 Effluent Corridor - This survey unit was a separate class 1 area which resulted from the investigation of elevated measurements within 1000001. The survey unit had a surface area of 198 m<sup>2</sup>.
- 2000001 South Outfall – a class 3 survey unit. The South Outfall bordered the southern boundary of the Industrial Area and the eastern boundary of the Effluent Corridor. It incorporated the Storm Drain Buffer Zone (800006). Storm water was released within this area. The survey unit had a surveyed surface area of 226,567 m<sup>2</sup>.
- 5010031 Upper/Outer Yard Pavement – a class 3 survey unit. The Upper/Outer Yard is a paved area surrounding the site of the demolished Hazardous Waste Building. The paved area surveyed was 2665 m<sup>2</sup>.
- 5010032 Hazardous Waste Building Pad – a class 3 survey unit. The Hazardous Waste Building Pad was the concrete foundation of the building used to temporarily store hazardous waste on site. The building itself was demolished leaving only the foundation. The survey unit had a surveyed surface area of 268 m<sup>2</sup>.
- 5010041 Extended Parking Area – a class 3 survey unit. The Extended Parking Area is located outside the industrial area (IA) on the north-east side of the site. It was used for contractor parking as well as temporary parking for radwaste shipments. The soil area surveyed was 42735 m<sup>2</sup>.

- 5010042 Extended Parking Area – a class 3 survey unit. The paved area surveyed was 38692 m<sup>2</sup>.
- 8000041 Central Transit Area – a class 3 survey unit. The Central Transit Area was the primary north to south corridor through the IA of the site. The area surveyed was 6634 m<sup>2</sup>.
- 8000071 West Industrial Area – a class 3 survey unit. The West IA consisted of both soil and paved areas. It was located just north of the retention basins and ran along the west fence to the spray ponds on the north side of the site. The survey unit soil area surveyed was 65776 m<sup>2</sup> and the pavement area surveyed was 5759 m<sup>2</sup>.
- 8000121 Industrial Area Waste Storage Buffer Zone – a class 3 survey unit. The IA Waste Storage Buffer Zone consisted of both soil and pavement located around the Interim Onsite Storage Building (IOSB) and barrel farm. The combined area surveyed was 6114 m<sup>2</sup>.
- 8000141 North IA Soil – a class 3 survey unit. The North IA Area is the open land to the north of the spray ponds. The soil area is 55761 m<sup>2</sup>.
- 813000 Auxiliary Building – a class 1 floor, lower walls and class 2 upper walls, ceiling survey unit. The Auxiliary Building contained the systems used to transport, process and contain radioactive solids, gases and liquids. The surveys presented in this survey unit are for the following rooms located on the –20', +20', and grade elevation: 3,13,14,16,17,24,26,27,104-135 ,111 ,112 ,113 ,114 ,115, 206,207, and the mezzanine roof.
- 8230001 Intake Pump Structure – a class 3 survey unit. The Intake Pump Structure was the concrete support structure for the circulating water pumps located just south of the cooling towers. The survey area surveyed was 402 m<sup>2</sup>.
- 8261002 Low Pressure (LP) Turbine Pedestal – a class 3 survey unit. The LP Turbine Pedestal was the concrete support structure for the low pressure turbine. It extends from grade level to the 40' elevation of the Turbine Building. The area surveyed was 996 m<sup>2</sup>.
- 8320001 Diesel Fuel Oil Pad Area – a class 3 survey unit. The Diesel Fuel Oil Pad Area is the former location of a concrete foundation pad that supported the fuel oil tank located north of the warehouse. The area surveyed was 1560 m<sup>2</sup>.
- 8390001 Transformer Yard – a class 3 survey unit. The Transformer Yard contained the main station transformers. The yard consists of the concrete pads upon which the transformers sat and the surrounding gravel and rock-covered area. The area surveyed was 3385 m<sup>2</sup>.

- 8430011, 21 Barrel Farm – a class 3 survey unit. The Barrel Farm was a paved area surrounded by an earthen berm used to store radwaste containers. It was located south of the IOSB. The barrel farm area surveyed was 1313 m<sup>2</sup> and the berm was 5000 m<sup>2</sup>.
- 8480021 Retention Basin Buffer Zone – a class 3 survey unit. The Retention Basin Buffer Zone was the buffer area surrounding the Retention Basins. The area surveyed was 10845 m<sup>2</sup>.
- 8480011 North Retention Basin – a class 3 survey unit. The North Retention Basin was one of two concrete-lined holding ponds for the liquid effluent prior to its release offsite. The area surveyed was 1432 m<sup>2</sup>.
- 8480012 South Retention Basin – a class 3 survey unit. The area surveyed was 1388 m<sup>2</sup>.
- 8480017 Retention Basin Surface Soil – a class 3 survey unit. The Retention Basin Surface Soil was the “as left” surface soil following demolition and backfilling of the retention basins. The area surveyed was 3590 m<sup>2</sup>.
- 8480018 Retention Basin Concrete Storage Area – a class 2 survey unit. The Retention Basin Concrete Storage Area was a small land area used for the temporary storage of concrete removed from the basins until it could be loaded into containers for transport offsite. The area surveyed was 1059 m<sup>2</sup>.
- 8510001, 2 Switch Yard – a class 3 survey unit. The Switch Yard contains the electrical switch yard for the facility. It consists of both paved and soil areas. The soil surveyed was 16700 m<sup>2</sup> and pavement surveyed was 14505 m<sup>2</sup>.
- 857001 Subsurface Vaults – a class 3 survey unit. The Subsurface Vaults were the several concrete manholes and hand holes used for access to buried electrical cables located within the Industrial Area yard. The area surveyed was 2153 m<sup>2</sup>.
- 8990071,2,3 Clean Drain System (CDS) Turbine Building Drains – a class 1 survey unit. The Turbine Building Drains were the buried and embedded drain pipes which conducted water from the Turbine Building into the clean oily water discharge piping. The areas surveyed were 11.1, 22.8, and 180 m<sup>2</sup> respectively.
- 8990291 Main Circ Water Pipe – a class 3 survey unit. The Circ Water Pipe consisted of 90” to 108” piping which transported water between the circ basin and the condenser bay. The area surveyed was 4515 m<sup>2</sup>.
- 8990321 Nitrogen System Pipe – a class 2 survey unit. The Nitrogen System Pipe was 1” and 2” pipe which transported nitrogen under pressure across the site for use as a cover gas. The area surveyed was 24.7 m<sup>2</sup>.

- 8990351 Nuclear Service Water Pipe – a class 3 survey unit. The Nuclear Service Water Pipe provided cooling water to emergency and shutdown systems such as decay heat coolers and ventilation systems in two trains. The internal surface area surveyed was 35.4 m<sup>2</sup>.
- 8990471 Service Water Pipe – a class 3 survey unit. The Service Water Pipe provided non-domestic water to the site from Folsom South Canal. The area surveyed was 250.3 m<sup>2</sup>.
- 8990511 Carbon Dioxide System Pipe – a class 2 survey unit. The Carbon Dioxide Pipe transported CO<sub>2</sub> under pressure to rooms protected by the Cardox fire protection system. The internal surface area surveyed was 2.5 m<sup>2</sup>.
- 8990521 Acid Waste System Pipe – a class 1 survey unit. The Acid Waste Pipe is that portion of the radwaste system that was designed to contain acidic waste from boric acid systems and the battery rooms. The area surveyed was 29.6 m<sup>2</sup>.
- 8990054 CDS-Storm Drain Non-Discharge Pipe – a class 3 survey unit. The Storm Drain Pipe consists of piping that routed storm water from gutters and ditches to locations outside the IA without going through the normal effluent structure. The area surveyed was 4644 m<sup>2</sup>.
- 8991073 CDS-Oily Water Separator – a class 3 survey unit. The Oily Water Separator pipe, most of which was removed, routed non-contaminated oily water from building drains through the effluent structure. The area surveyed was 55 m<sup>2</sup>.
- 8991091 RHUT Pipe Trench – a class 2 survey unit. The RHUT Pipe transported potentially contaminated water from the RHUT Tanks through the storm drains into the effluent structure. The area surveyed upon removal of the pipe was 1544 m<sup>2</sup>.

Your January 24, 2008, submittal (ADAMS Accession No. ML081580601) was supplemented by E-Mail dated July 29, 2008 (ML082210094).

Based on our review of the submitted FSSRs and supplemental information, we have determined that the subject FSSRs are consistent with the previously approved License Termination Plan and are therefore acceptable.

S. Redeker

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In accordance with 10 CFR 2.390 of the NRC's "Rules of General Applicability," a copy of this letter and the referenced correspondence will be available electronically in the NRC Public Document Room or from the Publically Available Records component of the NRC's document system (ADAMS) at the referenced ML numbers. ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

If you have any questions concerning this matter, please contact me at (301) 415-3017.

Sincerely,

**/RA/**

John B. Hickman, Project Manager  
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Decommissioning and Uranium Recovery  
Licensing Directorate  
Division of Waste Management  
and Environmental Protection  
Office of Federal and State Materials  
and Environmental Management Programs

Docket No.: 50-312

cc: Rancho Seco Service List

S. Redeker

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