



SMUD

SACRAMENTO MUNICIPAL UTILITY DISTRICT □ P. O. Box 15830, Sacramento CA 95852-1830, (916) 452-3211
AN ELECTRIC SYSTEM SERVING THE HEART OF CALIFORNIA

MPC&D 05-104

September 27, 2005

U.S. Nuclear Regulatory Commission
Attn.: Document Control Desk
Washington, DC 20555

Docket No. 50-312
Rancho Seco Nuclear Generating Station
License No. DPR-54

**DERIVED CONCENTRATION GUIDELINE LEVELS FOR RANCHO SECO
INDUSTRIAL AREA STRUCTURAL SURFACES**

Attention: John Hickman

In SMUD letter MPC&D 05-077, dated July 14, 2005, we submitted a copy of Decommissioning Technical Basis Document DTBD-04-004 "DCGLs for RSNGS Structural Surfaces," Revision 0. As stated in the DTBD, the RESRAD-BUILD v3.22 calculation gave an erroneous result for the single nuclide Derived Concentration Guideline Level (DCGL) value for Eu-154 due to a known coding problem contained in RESRAD-BUILD v3.22.

Argonne National Laboratory has since corrected this problem and has issued RESRAD-BUILD v3.3, dated August 25, 2005. We have used this updated version to re-calculate a single nuclide DCGL value for Eu-154 and issued Revision 1 to DTBD-04-004. Since there were no other changes to the assumptions or scenario contained in DTBD-04-004, Revision 0, this letter will serve to document the revised material contained in DTBD-04-004, Revision 1. These changes include:

- A new dose conversion factor value for Eu-154 of $8.43\text{E-}04$ mrem/yr per dpm/100 cm² in Attachment 8.10,
- A new single nuclide DCGL value for Eu-154 of $2.97\text{E+}04$ dpm/100 cm² including deletion of the associated footnote in Attachment 8.10,

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- Revised RESRAD-BUILD report excerpts for Eu-154 in Attachments 8.4, 8.6, 8.8, and 8.9, and
- Revised sensitive parameter results for Eu-154 in Attachment 8.5.

As they become available, we will submit additional DTBDs in anticipation that the review of these documents will facilitate NRC review and approval of the LTP to be submitted later this year. Members of your staff with questions requiring additional information or clarification may contact Bob Jones at (916) 732-4843.

Sincerely,

Michael J. Bern for S.R.

Steve Redeker
Manager, Plant Closure and Decommissioning