



Roy Blickwedel
Remedial Project Manager
Corporate Environmental Programs

GE
640 Freedom Business center
King of Prussia, PA 19406

T 610 992 7935
F 610 992 7898
roy.blickwedel@corporate.ge.com

May 26, 2005

U. S. Nuclear Regulatory Commission
Gary Janosko, Chief
Fuel Cycle Licensing Branch, FCSS
c/o Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: License Amendment Request - *Docket 40-8907*
Source Materials License SUA-1475
Groundwater Corrective Action Program

Dear Mr. Janosko:

United Nuclear Corporation (UNC) requests an amendment to Source Materials License SUA-1475, Condition 30. B., to bring the groundwater protection standard for chloroform into agreement with the Maximum Contaminant Level (MCL) that has been established by the U.S. Environmental Protection Agency.

As of September 1997 United Nuclear Corporation became a wholly-owned, indirect subsidiary of General Electric Company. GE Corporate Environmental Programs has been retained through a separate administrative services agreement to assist UNC both technically and administratively with environmental issues at the Church Rock site.

Existing Conditions

30.B. Comply with the following groundwater protection standards at point of compliance Wells GW-1, GW-2, GW-3, 632, EPA-23, EPA-28, and 509-D I the Southwest Alluvium; 614, 604, EPA-4, EPA-5, and EPA-7 in Zone 1; and 517, 613, 708, and 711 in Zone 3:

Arsenic = 0.05 mg/l, beryllium = 0.05 mg/l, cadmium = 0.01 mg/l, chloroform = 0.001 mg/l, gross alpha = 15.0 pCi/l, lead = 0.05 mg/l, lead-210 = 1.0 pCi/l, nickel = 0.05 mg/l, radium-226 and 228 = 5.0 pCi/l, selenium = 0.01 mg/l, thorium-230 = 5.0 pCi/l, uranium = 0.3 mg/l and vanadium = 0.1 mg/l.

Justification

Section 4.2 of NUREG-1620 (p.4-21) states that acceptable groundwater protection standards for hazardous constituents may be either:

- a) Commission-approved background concentrations
- b) MCLs, or
- c) Alternate concentration limits.

Under the Safe Drinking Water Act (SDWA), chloroform is regulated in the group of trihalomethanes, which have an established MCL of 0.080 mg/L. This represents the concentration of chloroform that is allowed in drinking water by taking into consideration best available treatment technology, costs, and benefits.

Proposed Amendment Text

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Please contact me if you have any questions.

Sincerely,



Roy S. Blickwedel, P.G.
Remedial Project Manager
Corporate Environmental Programs

cc: ✓ William von Till, NRC
Larry Bush, UNC