

70-1257

SIEMENS

March 7, 1994

To: U.S. Nuclear Regulatory Commission
Operations Center

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Subject: **Bulletin 91-01 Reportable Condition - Potentially Incorrect CSA Assumption
Regarding Uranium Density**

On March 7, 1994 as part of an ongoing criticality safety update program, a Siemens Power Corporation (SPC) Criticality Safety Specialist requested laboratory analyses to determine the wt.% U in a sample of ammonium diuranate (ADU) taken from the SPC process. This request was an attempt to confirm a limiting assumption made in a criticality safety analysis that is in the process of being updated. The limiting assumption was that the maximum possible uranium density in ADU from the SPC process is less than 0.85 g U/cc. The laboratory results indicate that the U density in the material sampled is about 1.1 - 1.3 grams U/cc. These results were discussed with plant management. An orderly shut down of the affected equipment has been initiated and the equipment will remain shut down pending resolution of this apparent discrepancy.

An evaluation is ongoing to determine the limiting uranium density in the affected equipment. If the highest possible uranium densities from the SPC process are found to be acceptable this report will be retracted.

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