

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

June 19, 1985 '85 JUN 24 P2:55

Director, Office of Nuclear Material
Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Attention: Mr. L. O. Rouse

Dear Mr. Rouse:

In the Matter of the)
Tennessee Valley Authority)

Docket Nos. 30-19101
30-19102 ✓

Please refer to Byproduct Material License BML 41-08165-14 for Sequoyah Nuclear Plant and BML-01-21075-01 for Browns Ferry Nuclear Plant. Our analysis that accompanied the requests for these licenses described in detail the handling procedures for the movement of low-level radwaste to and from the storage modules. We stated that we would use a remotely controlled gantry crane equipped with television cameras and a drum grapple for placing and retrieving waste in the storage modules. This complicated procedure was proposed since TVA planned to store volume-reduced waste containers with extremely high dose rates. However, since receiving the storage licenses, TVA has canceled plans to incinerate radwaste onsite at its nuclear plants. Therefore, the need to store and handle large numbers of highly radioactive containers no longer exists.

Instead, the majority of the containers to be stored in the modules will contain low-activity waste (mostly trash) with radiation dose rates ranging from a few millirems per hour to a few hundred millirems per hour. Since most storage activities will involve the movement of low-activity containers, TVA plans to implement the following changes to the container handling process to improve the container handling efficiency.

1. Placement of containers will be either by use of the mobile gantry crane described in the original submittal or by a suitably sized mobile yard crane. Use of a mobile yard crane will speed up operations and provide redundancy in case of a loss of use of the gantry crane.



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NMSS LIC30
41-08165-14 PDR

BUCKET NO. 30-19102
CONTROL NO. 25421
DATE OF DOC. 6/19/85
DATE RCVD. 6/24/85
FCUF _____ PDR ☒
FCAF ☒ LPDR ☒
WM _____ I&E REF. ☒
WMUR _____ SAFEGUARDS _____
PCTC _____ OTHER ☒

DESCRIPTION:

req for amend

6/25/85 ent

Mr. L. O. Rouse

June 19, 1985

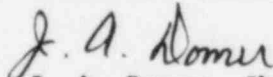
2. Television cameras may not be used during the placement or retrieval of waste containers. Low-activity containers may, as an alternative, be placed in and removed from the storage modules by a crane operator receiving directions by hand signals or by two-way radio. This change should improve container handling efficiency and allow storage operations to continue even in the event of a complete failure of the television camera system.
3. Workers may be placed on top of the modules or inside the storage compartment to give directions to the crane operator and to ensure proper placement of containers in the modules
4. With the large number of low-level containers that may be handled at one time (up to 150 containers per truck), TVA may use a multiple-drum lifting device, such as an electromagnet or a six-drum vacuum lifter instead of the existing single container drum grapple. The drum grapple is simply too slow to handle large numbers of containers at one time.

We want to emphasize that all storage activities will be conducted in accordance with established health physics and industrial procedures. These proposed plans will be used only for the movement of containers having low radioactivity. High activity waste handling, such as for primary system resin, will not be affected by this change.

If you have any questions, please call R. E. Alsup at FTS 858-2725.

Very truly yours,

TENNESSEE VALLEY AUTHORITY


J. A. Domer, Chief
Nuclear Licensing Branch

PDR
return to
39655

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(50-327/328)

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25424

DOCKET NO. 30-19101
25424
COMPLAINT NO. 6/19/85
DATE OF DOC. 6/24/85
DATE RECD. ✓
FCJF ✓
PCAF ✓
WIA ✓
WIER ✓
FOIC ✓
LPOB ✓
TAS REV. ✓
SHERGUARDS ✓
OTHER ✓

DESCRIPTION: req for amend
6/25/85 utb

Mr. L. O. Rouse

June 19, 1985

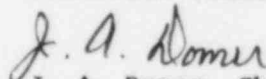
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