

July 3, 2000

MEMORANDUM TO: File Center

FROM: Jack N. Donohew, Project Manager
Project Directorate IV-2
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

/RA/

SUBJECT: RESPONSE TO DREY LETTER QUESTION B.3 FROM THE LICENSEE
BY E-MAIL (TAC NO. MA8411)

In the letter dated April 12, 2000, from the staff to Union Electric Company (the licensee), the staff requested the licensee to address questions in the Ms. Kay Drey letter to the NRC dated March 10, 2000. The licensee responded in its letter of June 5, 2000, and I reviewed the licensee's responses. For the response to question B.3, I requested the licensee to provide more details concerning the radioactivity released during the February 13, 2000, event from flow paths other than the atmospheric steam dump valves.

This memorandum to file is to document the expanded licensee response to the Drey Question B.3 provided in the e-mail dated June 26, 2000, from the licensee. Attached is the e-mail.

Docket No. 50-483

Attachment: Licensee E-Mail dated June 26, 2000

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Attachment: Licensee E-Mail dated June 26, 2000

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RidsNrrPMJDonohew

ACCESSION NO: ML00372828

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NAME	JDonohew:am	EPeyton	SDembek
DATE	07/03/2000	06/30/00	07/03/00

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LICENSEE E-MAIL DATED JUNE 26, 2000

From: "Slaten, Neal G" <NSlaten@ameren.com>
To: "jnd@nrc.gov" <jnd@nrc.gov>
Date: Mon, Jun 26, 2000 4:49 PM
Subject: Response to Kay Drey Question B3

Jack:

These are the quantitative answers to question B3. The partitioning factor used for all these calculations was assumed to be 1. As we discussed on the phone we have given you both the quantities based on the pre-event samples taken on 11/11/99 and the more conservative post-event samples taken on 11/13/99.

Air Ejector Discharge

The effluent of the Air Ejector Discharge is one of several flow paths directed to the Unit Vent for release to the environment. The flow going out the Unit Vent is sampled and the release to the environment is quantified. The Unit Vent results for the period of February 10 through February 17 is as follows:

Tritium: 8.06 E-01 curies
Xe-133: 8.51 E-01 curies

Turbine-Driven Auxiliary Feed Pump

The turbine-driven auxiliary feed pump is supplied with steam from B & C steam generators. After the steam passes through the turbine, the exhaust is discharged to the atmosphere. The release to the environment is quantified using sample results from B & C steam generator and the steam flow through the turbine. The turbine-driven auxiliary feed pump was run for four hours on February 13. The results are as follows:

Using February 11 steam generator results:

I-133: 1.66E-06 curies
Kr-88: 2.75E-06 curies
H-3: 5.04 E-03 curies

Using February 13 steam generator results:

I-131: 1.54E-04 curies
I-132: 2.98E-05 curies
I-133: 2.15E-04 curies
I-135: 9.26E-05 curies
Cs-137: 5.59E-06 curies
Xe-133: 2.94E-05 curies

Xe-135: 9.30E-06 curies
Xe-135m: 9.37E-05 curies
H-3: 5.04 E-03 curies

Gland Steam Exhaust:

When the reactor is shutdown, there is no steam being supplied to the main turbine, therefore, no steam release from the gland steam exhaust into the turbine building. To quantify what was released to environment from gland steam exhaust for this event, the time from startup at 0 percent power to 100 percent power was used. This time period was 55 hours. The amount of activity discharged was:

Using February 11 steam generator results:

I-133: 5.25E-07 curies
Kr-88: 8.72E-07 curies
H-3: 1.58E-03 curies

Using February 13 steam generator results:

I-131: 4.87E-05 curies
I-132: 9.45E-06 curies
I-133: 6.83E-05 curies
I-135: 2.93E-05 curies
Cs-137: 1.77E-06 curies
Xe-133: 9.32E-06 curies
Xe-135: 2.95E-06 curies
Xe-135m: 2.97E-05 curies
H-3: 1.58E-03 curies

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