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MAY 8 1978

Docket No. 70-2623

MEMORANDUM FOR: Richard W. Starostecki, Chief  
Fuel Reprocessing and Recycle Branch  
Division of Fuel Cycle and Material Safety

FROM: Brett S. Spitalny  
Fuel Reprocessing and Recycle Branch  
Division of Fuel Cycle and Material Safety

SUBJECT: SITE VISIT TO MCGUIRE AND OCONEE NUCLEAR POWER  
STATIONS

Ref. (a): Letter to Greg Pollak (Duke Power Co), dated  
April 19, 1978

Purpose:

Site visit to familiarize the project manager and contractors with the spent fuel facility at the McGuire and Oconee Nuclear Power Stations.

Place and Date:

Duke Power Co., McGuire Nuclear Station, Terrell, NC, April 25 and 27, 1978  
Duke Power Co., Oconee Nuclear Station, Seneca, SC, April 26, 1978  
Duke Power Co., General Offices, Charlotte, NC, April 27, 1978.

Attendees:  
(See attached list)

Discussion:

Reference (a) advised Duke Power Company of our intentions for a site visit to the McGuire and Oconee Nuclear Stations. It also contained points of interest for each respective site which would be viewed or discussed during the three day trip.

April 25, 1978

Members from the staff of Battelle/Pacific Northwest Laboratory (BNPL) and Oak Ridge National Laboratory (ORNL) along with myself met with representatives from Duke Power Co. for an introduction to the plant site.

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Maurice McIntosh, McGuire Plant Manager, and George Case, Superintendent of Operations, gave us an overview of their intentions and need for storing Oconee Spent Fuel at the McGuire site.

Following the meeting, a complete tour of the facility was given by Greg Pollak, Brew Barron and Steve Frye. The spent fuel pool, cask handling equipment and supporting systems, such as ventilation; cooling and boron recycle were reviewed in detail.

April 26, 1978

A tour of the Oconee spent fuel pools and fuel handling equipment was conducted by Dave Bito of the Oconee staff.

The location of fuel with respect to age was discussed in an effort to understand the applicant's decision to ship 120 day old fuel vice 1 year old fuel. Mr. Bito was unable to confirm their decision based on locality. A significant number of aged fuel elements are located within easy access.

The proposed truck route between Oconee and McGuire was driven to and from the site to familiarize the visiting personnel with the actual route which will be used, in addition to the bordering area.

April 27, 1978

Dan Glenn, Larry Cadwell, Ed Frederick and myself met with Tony Owen and Terry Keene, station chemist and radiological health physicist, respectively, to discuss some of the environmental aspects of the project. Following a question and answer period, we toured the site environmental laboratory, both the aquatic and radiological sections.

An additional tour of the spent fuel pool was conducted. A complete walk-thru of the handling process was accomplished covering cask receipt, washdown, inspection and decontamination, cask unloading and final element positioning and storage.

The remainder of the visit at the McGuire site was concluded in a meeting with Greg Pollak to discuss any final questions and to determine what information/material was lacking by either of the national laboratories or NRC.



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Richard W. Starostecki

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One final meeting was scheduled at Duke Power Company's main office in downtown Charlotte. This meeting was convened between the Fuel Management Group and myself to discuss their reasoning for shipping 120 day old fuel. Dave Freck and Mike Glover provided Duke's logic behind the decision.

Quantitatively, it can be shown, using their present plans for maintaining a full core reserve, that it becomes advantageous to ship 120 day old in lieu of 1 year old fuel. It would become necessary to handle the fuel a second time, maintaining the pools as presently planned. However, it may also be shown that using a different arrangement for maintaining a full core reserve, it is possible to ship fuel at least 1 year old without causing any impact to their discharging and/or shipping schedule.

Conclusions:

The list of information and questions which was developed during the last meeting at the McGuire site is being supplemented by additional questions and comments which have surfaced after the trip. This list is presently being compiled, and will be formally forwarded to Duke Power Co. at a later date.

*Brett S. Spitalny*

Brett S. Spitalny  
Fuel Reprocessing and  
Recycle Branch  
Division of Fuel Cycle  
and Material Safety

Enclosure:  
Attendee list

### ATTENDEES

<u>Name</u>	<u>Organization</u>	<u>Capacity</u>
Brett Spitalny	NRC	Project Manager
Ed Frederick	ORNL	Manager, Regulatory Programs
Dan Glenn	BPNL	Senior Development Engineer
Larry Cadwell	BPNL	Ecologist
Maurice McIntosh	Duke-McGuire	Plant Manager
George Cage	Duke-McGuire	Superintendent of Operations
Brew Barron	Duke-McGuire	Operating Engineer
*Greg Pollak	Duke-Steam Production	Assistant Engineer, Licensing
Steve Frye	Duke-McGuire	Shift Supervisor
Tony Owen	Duke-McGuire	Station Chemist
Terry Keene	Duke-McGuire	Station Health Physicist
Dave Freck	Duke-Fuel Management	Associate Engineer
Mike Glover	Duke-Fuel Management	Junior Engineer
Dave Bito	Duke-Oconee	Junior Engineer

\*Greg Pollak has been designated as the point of contact for communications with respect to this licensing review.