

November 22, 2000

Ms. Lynnette Hendricks
Nuclear Energy Institute
1776 I Street, NW, Suite 400
Washington, DC 20006-3708

SUBJECT: REQUEST FOR INFORMATION RELATED TO DEVELOPMENT OF A
SUPPLEMENT TO NUREG-0586, FINAL GENERIC ENVIRONMENTAL IMPACT
STATEMENT FOR DECOMMISSIONING OF NUCLEAR FACILITIES

Dear Ms. Hendricks:

In order to facilitate the staff's development of a Supplemental Generic Environmental Impact Statement (GEIS) for decommissioning power reactors, our contractor at Pacific Northwest National Laboratory has developed a list of information and data needed to evaluate the environmental impacts from decommissioning. The information defined in the enclosure is designed to allow the evaluation of impacts based on the scope of the Supplemental GEIS for permanently shutdown commercial nuclear reactors. The informational needs have been developed based on a number of visits to permanently shutdown nuclear reactors undergoing decommissioning. Based on our discussions with the licensees at these visits, we understand that the information is readily available. The licensees we have visited have been very helpful and in some instances are providing the requested information directly to the staff.

The staff is requesting as much detail as possible, without expecting the licensees to have to create new information. In some cases, however, where identified in the list, the data needs are associated with specific activities that take place during decommissioning and we are requesting that the time and/or activities that occurred be specified (for example, the occupational exposure by activity, such as steam generator removal, is requested). Hard copies or electronic files of information is preferred; however, if information has previously been submitted to the NRC, reference to the letter or report is acceptable.

If you have any questions regarding this request, please call the NRC project manager, Mr. Dino Scaletti at 301-415-1104. Thank you in advance for your support of this activity.

Sincerely,

***/RA by Suzanne C. Black Acting
for/***

John A. Zwolinski, Director
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Enclosure: As stated

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cc:

Mr. Ralph Beedle
Senior Vice President
and Chief Nuclear Officer
Nuclear Energy Institute
1776 I Street, NW, Suite 400
Washington, DC 20006-3708

Mr. Alex Marion, Director
Programs
Nuclear Energy Institute
1776 I Street, Suite 400
Washington, DC 20006-3708

Mr. David Modeen, Director
Engineering
Nuclear Energy Institute
1776 I Street, NW, Suite 400
Washington, DC 20006-3708

Mr. Anthony Pietrangelo, Director
Licensing
Nuclear Energy Institute
1776 I Street, NW, Suite 400
Washington, DC 20006-3708

Mr. Jim Davis, Director
Operations
Nuclear Energy Institute
1776 I Street, NW, Suite 400
Washington, DC 20006-3708

Mr. H. A. Sepp, Manager
Regulatory and Licensing Engineering
Westinghouse Electric Company
P.O. Box 355
Pittsburgh, PA 15230-0355

Mr. Charles B. Brinkman, Director
Washington Operations
ABB-Combustion Engineering, Inc.
12300 Twinbrook Parkway, Suite 330
Rockville, MD 20852

Mr. Michael Meisner
Maine Yankee Atomic Power Co.
321 Old Ferry Road
Wiscasset, ME 04578-4922

Mr. Paul Blanch
Energy Consultant
135 Hyde Road
West Hartford, CT 06117

New England Coalition on Nuclear
Pollution
P. O. Box 545
Brattleboro, VT 05302

Mr. Ray Shadis
Friends of the Coast
P. O. Box 98
Edgecomb, ME 04556

Mr. David Lochbaum
Nuclear Safety Engineer
Union of Concerned Scientists
1707 H Street, NW, Suite 600
Washington, D.C. 20006

Mr. Paul Gunter
Nuclear Information Resource Service
1424 16th St. NW, Suite 404
Washington, DC 20036

Mr. Peter James Atherton
P.O. Box 2337
Washington, DC 20013

Mr. H. G. Brack
Center for Biological Monitoring
P.O. Box 144
Hull's Cove, ME 04644

Ms. Deborah B. Katz
Citizen's Awareness Network
P. O. Box 3023
Charlemont, MA 01339-3023

Mr. Robert Holden
National Congress of American Indians
Suite 200
1301 Connecticut Ave, NW
Washington DC, 20036

Request for Information
Related to
Decommissioning Nuclear Power Reactors

Land Use

- plans for rubbleization or for entombment

Air Quality

- plans for use of onsite incineration/compaction including information on the potential for and quantity of releases from any onsite incinerators
- activities that could result in fugitive dust (such as from rubbleization) and estimates of the amount of dust
- impact of air quality from shipment of waste (determined with information on the anticipated number of shipments and the distance)

Aquatic Resources

- plans for removal of onsite discharge structures that are radiologically contaminated and that could impact the aquatic environment by their removal or abandonment
- plans for dredging that may be related to movement of large components, etc., and quantity of material or area to be dredged
- any plans for removal of contamination from wetland environments

Terrestrial Resources

- plans for disturbance of vegetated land, type of vegetation, and area or volume of material to be removed (for lay-down yards, additional waste storage [not fuel storage] facilities)

Water Use

- quantities of water used during decommissioning and type of activity for which it is used (presumably for spent fuel pool makeup, dust control, decommissioning blowdown, etc.)
- sources of water that is used (groundwater or surface water)

Other Resource Use

- use of electricity, etc.

Water Quality

- impact of turning off dewatering systems
- effluent discharge reports
- any known locations of contamination that could be moved by surface or groundwater

Socioeconomics

- work force size/timed with decommissioning phase or year
- update on number of workers currently at operating plants
- anticipated loss of \$'s to the community and schedule for this loss

Socioeconomics--continued

- number of employees during decommissioning (including licensee employees and decommissioning operations contractor (DOC) employees) versus the number of employees during operations
- note if there are differences in residence locations for DOC employees vs licensee employees
- non-labor expenditures in the community. Example - concrete/electricity/procurements

Radiological impacts - Occupational exposure

- records of worker dose from decommissioning facilities
 - total dose per year
 - distribution of doses by activity (if available)

It would be helpful to correlate the dose with the type of activities (planning, decontamination and dismantlement, storage period, etc.). We could do this with a rough schedule of the activities during each calendar year.

Radiological impacts - Public exposure

- effluent release reports with dose calculations (if available) linked to time or activity

Transportation

- distance to low-level waste (LLW) site or vendor site
- number of shipments
- nonradioactive waste/ mixed waste quantities and disposal plans
- type of transportation (train/truck)

Accidents

- discussion of potential accidents

Cost

- overhead staffing levels (both utility and contractor) required to manage decommissioning projects
 - how many people
 - what jobs they do
- LLW generation volumes (by LLW category)
- management of LLW (extent of use of vendors)
- location (distance) to LLW disposal site
- disposal costs

Nonradiological impacts

- chemicals being used/quantities/disposal location

Noise

- volume/duration and timing