From:

Amy Cubbage \ \(\sqrt{W} \)
Gilles, Nanette

To:

Date:

Tue, Aug 7, 2001 2:38 PM

Subject:

Fwd: PBMR pre-application resources

Nan,

Joe asked for some background on the NRR PBMR pre-application resources. I sent him the attached info. I'm sending a copy to you for your info. Please let me know if I can provide any additional information.

Amy

From:

Amy Cubbage WRF

To:

Williams, Joseph

Date: Subject: Tue, Aug 7, 2001 1:21 PM PBMR pre-application resources

BACKGROUND FOR PBMR PRE-APPLICATION RESOURCE TABLE

RES has the lead for the PBMR pre-application. NRR plays a significant role in the legal/financial issues, the licensing plan, and the licensing approach. On the technology issues NRR is in a support role. RES has the lead on all Gas reactor technology issues. The scope of the pre-application review is being driven by what information Exelon can/will provide to the staff, and what issues they are interested in discussing. The technical issues to be introduced at the monthly meetings with Exelon are as follows:

*June

Fuel

*July

Codes and standards

August Analytical codes

Core design (steady state/transients)

Shutdown cooling capability and shutdown capability

Confirmatory test program/ITAAC **High Temperature Materials** Fuel Handling System

source term

October Graphite Chemical attack

Security/Safeguards

Control room design/habitability

November Waste characteristics

Bravton Cycle/Power conversion system

December Open

The meetings listed above are for introduction of the topics with follow on discussion to occur at future meetings as necessary. In addition, containment vs. confinement and EP will be discussed in the context of policy issues.

The support role of NRR on the technical topics listed above is to attend the meetings and to be aware of the issues. In some limited cases like fire protection codes and standards, NRR has lead review responsibility During the pre-application phase NRR will also be expending resources to bring staff up to speed on key gas reactor issues (fuel, graphite, high temperature materials, source term etc.) so the NRR staff will be prepared to review a license application for PBMR. With the exception of Codes and standards (we already had the meeting with Exelon to discuss the codes and standards that PBMR will reference. NRR staff attended the meeting but resources were not significant) the only issues with substantial DE involvement are high temperature materials and graphite (from a structural component basis not fuel design).

In developing the resource estimated in the table, I considered the issues that will be focused on during pre-application interactions with Exelon, the role of NRR in the pre-application review, and the areas where NRR needs preparation in order to be efficient and effective in its review of a PBMR license application.

^{*} meetings already occurred