

From: Marvin Mendonca
To: Paul Brand; Tom Myers; Wade Richards
Date: 10/23/2006 7:41:19 AM
Subject: Fwd: Follow up clarification for NIST

Wade, Paul and Tom,

Below and attached is request for additional clarification. Appreciate your help on this.

Marv

>>> "Miller, Beverly M" <Beverly.Miller@pnl.gov> 10/17/2006 4:32:04 PM >>>

> Jim,
> After reviewing the Site Audit information we brought back from the
> site visit, the review team had only a couple of things we need to
> have clarified. Could you forward these to Marvin Mendoza for
> clarification by the NIST team?
>
> 1. While on the tour, the question was asked how many employees work
> at the NBSR each day. The answer given was 250--are those all at the
> NBSR specifically or does that include the employees working with
> experiments at the NCNR, as well?
>
> 2. When talking about other facilities that do similar work to NBSR
> (in reference to alternative options if NBSR were not licensed),
> several facilities were mentioned that were fully booked. Could you
> expand on those options a little bit--we heard the HFIR at Oak Ridge,
> and ILL in Grenoble, France, any others we need to include? Where is
> the spallation source that was referred to located? Any other reasons
> other facilities wouldn't be able to fulfill the research needs?
>
> 3. Attached is the list of verbal information received at the site
> visit that we plan to rely on for our document. Could you ask the
> NIST team to review it to be sure we understood them correctly before
> we put them on the docket?
>
> <<Attachment 4.Verbal Information relied on.10.17.06.wpd>>
>
> Thanks so much, Bev!
>
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CC: Beverly.Miller@pnl.gov; James Wilson; kmw; wbk

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Subject: Fwd: Follow up clarification for NIST
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From: Marvin Mendonca
Created By: MMM@nrc.gov

Recipients	Action	Date & Time
nist.gov AM paul.brand (Paul Brand) tjmyers (Tom Myers) wade.richards (Wade Richards)	Transferred	10/23/2006 7:41:42
nrc.gov OWGWPO04.HQGWDO01 AM	Delivered	10/23/2006 7:41:27
WBK CC (William Kennedy) AM	Opened	10/23/2006 8:36:10
nrc.gov TWGWPO04.HQGWDO01 AM	Delivered	10/23/2006 7:41:27
JHW1 CC (James Wilson) AM	Opened	10/23/2006 7:43:44
KMW CC (Kevin Witt) AM	Opened	10/23/2006 8:44:49
pnl.gov AM Beverly.Miller CC (Beverly.Miller@pnl.gov)	Transferred	10/23/2006 7:41:42

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OWGWPO04.HQGWDO01	10/23/2006 7:41:27 AM	nist.gov nrc.gov
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Files	Size	Date & Time
MESSAGE	3467	10/23/2006 7:41:19 AM
Attachment 4.Verbal Information relied on.10.17.06.wpd	4549	10/23/2006 7:39:33 AM

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INFORMATION RECEIVED VERBALLY FROM NIST STAFF
AT SEPTEMBER 26, 2006 SITE AUDIT
WHICH WILL BE RELIED ON FOR ENVIRONMENTAL REVIEW

1. Approximate daily reactor water use is 150,000 gallons/day, when in operation
2. 250 Employees work at the NBSR each day.
3. Refuel every 38.5 day operating cycle with 10-12 day shutdowns
4. 4/30 fuel rods replaced each shutdown
5. Use NACLW-2 casks for shipping spent fuel
Transport spent fuel every 4 1/2 years (126 elements, 3 casks) in 1 trip
6. Control Room - 2-3 operators on duty at all times, 4 shifts, 8 hour rotations
7. No Threatened or Endangered species on site. Deer and goose populations are managed on site by Fish and Wildlife Service and U.S. Humane Society.
8. Air effluents continually filtered through HEPA filters on stack. Detectors on system divert air through special (charcoal) filters if limits are exceeded.
9. Liquid effluents released by batch after sampling.
10. Environmental sampling. Soil and vegetation sampling done onsite only. Water monitoring done on and offsite. TLDs on site fence line.
11. NIST site is now 575 acres. 1 acre used for freeway expansion a few years ago.
12. There are no alternatives available to relicensing the NBSR. There is nothing else currently available that can do this work. Other facilities with similar capabilities (HFIR at Oak Ridge, Ill in Grenoble, France, Spallation source [need location]) are all booked to capacity. Cold neutron source not available elsewhere. Replacement cost for a new facility would be over one billion dollars.

CC: Beverly.Miller@pnl.gov; James Wilson; kmw; wbk