

**From:** Peter Tam  
**To:** INTERNET:calliss@nimo.com, INTERNET:leonardm@nimo...  
**Date:** Tue, Aug 22, 2000 4:00 PM  
**Subject:** NMP1 -- GL 99-02 Amendment Request, 8/15/00 Submittal

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Steve Callis:

Our reviewer and contractor have looked at your 8/15/00 submittal and have generated a number of questions (see unedited e-mail below). Please review the questions/comments and call me to set up a conference call. Thanks.

Peter

>>> "Fresco, Anthony N" <fresco@bnl.gov> 08/18 5:28 PM >>>  
John,

This would be our questions concerning the August 15, 2000 revised submittal for GL 99-02 for Nine Mile Point Unit 1, for the two systems of concern: Emergency Ventilation System (EVS) and Control Room Air Treatment System (CRATS):

In particular, we are focusing on Attachment B, pages 1 of 5, 2 of 5, and 3 of 5.

Page 1 first #, it states that for the EVS, each EVS filter bank includes a charcoal filter....capable of removing 99.0% of radioactive methyl iodide and other iodine forms.

Page 2, Evaluation - Supplemental Information...., it states that the EVS has a charcoal filter bed that is a minimum of 2&1/8 inches deep with a face velocity of 33 fpm, at a design flow rate of 1600 SCFM; the residence time is 0.3 seconds, and the required efficiency is 99%.

Also, the CRAT System has a charcoal filter bed that is 2 inches deep with a face velocity of 26.8 fpm at a maximum flow rate of 2500 SCFM; the residence time is 0.25 seconds and the required efficiency is 90%.

Also on Page 2, under "Revised Change to the Previously Submitted TS 3.3.4.c," it states that NMPC is proposing to test charcoal samples from the EVS to show a > or = to 99.5% radioactive methyl iodide removal when tested per ASTM D3803-1989.

On Page 3, Conclusion, it states "This submittal also provides a revision to TS 3.4.4, by increasing the charcoal bed testing efficiency of the EVS from 95% to 99.5%, which was submitted by TS amendment request dated November 30,

1999 (NMP1L 1485).

In view of the above, we have the following questions:

1. a) What are the actual efficiencies currently credited in the FSAR accident analyses and the test safety factors?  
b) Are you changing the actual efficiencies from the values currently stated in the FSAR?  
c) For the EVS, there appears to be a discrepancy between the test removal efficiency on Page 1 of 99.0% vs. the 99.5% identified on Page 2. Please explain.
2. Which accident envelopes the required filter efficiencies?
3. For the EVS, a 99.5% test removal efficiency is not credible for a 2&1/8 inch charcoal bed depth. Please explain whether or not this the intended removal efficiency.
4. a) For the CRAT, it appears that a 2 inch bed with a residence time of 0.25 seconds should have a residence time of 40 fpm, not 26.8 fpm. Please explain.  
  
b) For the EVS, there appears to be a slight discrepancy in the face velocity and residence time. For a 2&1/8 in. bed with a residence time of 0.3 seconds, we calculate a face velocity of 35.4 fpm, not 33 fpm. This is minor and is of no consequence if you are proposing to test at 40 fpm per ASTM D3803-1989. Please confirm or explain.

Tony Fresco  
631-344-7214  
631-344-4512 FAX

-----Original Message-----

From: John Segala [<mailto:JPS1@nrc.gov>]  
Sent: Friday, August 18, 2000 3:38 PM  
To: [fresco@bnl.gov](mailto:fresco@bnl.gov); [subudhi@bnl.gov](mailto:subudhi@bnl.gov)  
Subject: Fwd: Re: NMP1, GL 99-02 amendment request

Tony/Mano,

Could you put a short list of questions together?

John

**CC:** GWIA:[fresco@bnl.gov](mailto:fresco@bnl.gov), John Segala

**Mail Envelope Properties**

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**From:** Peter Tam

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