

PMSTPCOL PEmails

From: Tai, Tom
Sent: Friday, June 26, 2009 11:35 AM
To: Stephens Scot
Cc: STPCOL
Subject: Draft RAI 3021 for Chapter 12.3 and 12.4
Attachments: RAI 3021 12.03-12.04-xx.doc

Scot,

Please review the attached RAI 3021(12.03-12.04-xx). If you need a conference call to clarify the requested information, please contact me. If a conference call is not needed, please send me an email and I will continue the formal process of issuing the RAI to STPNOC.

Regards

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Hearing Identifier: SouthTexas34Public_EX
Email Number: 1353

Mail Envelope Properties (C56E360E9D804F4B95BC673F886381E71FBAEA7BF0)

Subject: Draft RAI 3021 for Chapter 12.3 and 12.4
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From: Tai, Tom

Created By: Tom.Tai@nrc.gov

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Tracking Status: None

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Request for Additional Information No. 3021 Revision 2

South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co
Docket No. 52-012 and 52-013
SRP Section: 12.03-12.04 - Radiation Protection Design Features
Application Section: 12.3

QUESTIONS for Health Physics Branch (CHPB)

12.03-12.04-***

10 CFR 20.1501(b) requires licensees to ensure that the instruments and equipment used for quantitative radiation measurements are calibrated periodically for the radiation measured. RG 1.206, Part C.I.12.3.4, Area Radiation and Airborne Radioactivity Monitoring Instrumentation, states that the applicant should provide information regarding the calibration methods and frequency for the monitoring instrumentation.

ABWR DCD Section 12.3.7.2, Operational Considerations, contains a COL information item for the COL applicant to address Area Radiation and Airborne Radioactivity Monitoring Instrumentation operational considerations including monitor alarm setpoint(s) and information on calibration of fixed area and airborne radioactivity monitors. STP FSAR Tier 2, Section 12.3.7.2, Operational Considerations, states that alarm setpoints will be established based on design background radiation levels and confirmed during the Startup Test Program and that calibration and operability will be completed during the Preoperational Test Program. Section 12.3.7.2 also states that airborne radiation monitoring operational considerations, such as procedures for operation and calibration of monitors and placement of portable monitors, will be established in accordance with the Operational Radiation Protection Program described in Section 12.5S. Section 12.5S references NEI 07-03, Generic FSAR Template Guidance for Radiation Protection Program Description as the basis for the Operational radiation Protection Program for STP 3 & 4. However, NEI 07-03 does not provide any information on the calibration of fixed area and airborne monitors – only calibration of portable monitors.

In accordance with RG 1.206, provide information on the calibration methods and frequency that will be used for the STP 3 & 4 fixed area and airborne monitors. Discuss to what extent the calibration guidance described in ANSI/ANS 6.8.1, Location and Design Criteria for Area Radiation Monitoring Systems for Light Water Nuclear Reactors will be incorporated. If not, describe the specific alternative approaches used.