

EDO Principal Correspondence Control

FROM: DUE: 06/19/06 EDO CONTROL: G20060503  
DOC DT: 05/17/06  
FINAL REPLY:

Graham B. Wallis, ACRS

TO:  
/ Reyes, EDO

FOR SIGNATURE OF : \*\* GRN \*\* CRC NO:  
Reyes, EDO

DESC: ROUTING:  
Modified Draft Final Revision 4 to Regulatory  
Guide 1.97, "Criteria for Accident Monitoring  
Instrumentation for Nuclear Power Plants"  
Reyes  
Virgilio  
Kane  
Silber  
Dean  
Cyr/Burns  
Dyer, NRR  
Sosa, OEDO  
ACRS File

DATE: 05/18/06.

ASSIGNED TO: CONTACT:  
RES Sheron

SPECIAL INSTRUCTIONS OR REMARKS:

Prepare response to ACRS for the signature of EDO.  
Add the Commission and SECY as cc's.

USE SUBJECT LINE IN RESPONSE.

Template: EDO-001

E-RIDS: EDO-01



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
ADVISORY COMMITTEE ON REACTOR SAFEGUARDS  
WASHINGTON, D. C. 20555

May 17, 2006

Mr. Luis A. Reyes  
Executive Director for Operations  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

**SUBJECT: MODIFIED DRAFT FINAL REVISION 4 TO REGULATORY GUIDE 1.97,  
"CRITERIA FOR ACCIDENT MONITORING INSTRUMENTATION FOR  
NUCLEAR POWER PLANTS"**

Dear Mr. Reyes:

During the 530<sup>th</sup> meeting of the Advisory Committee on Reactor Safeguards, March 9-11, 2006, we reviewed the draft final Revision 4 to Regulatory Guide 1.97, "Criteria for Accident Monitoring Instrumentation for Nuclear Power Plants," and provided comments in our letter dated March 28, 2006. During our 532<sup>nd</sup> meeting, May 4-5, 2006, we reviewed an alternative proposal by the staff to accommodate the comments and recommendations included in our March 28, 2006 letter. During our review, we had the benefit of discussions with representatives of the NRC staff and industry. We also had the benefit of the documents referenced.

#### **RECOMMENDATION**

The staff should issue the modified Revision 4 to Draft Regulatory Guide 1.97 as final.

#### **DISCUSSION**

Draft final Revision 4 to Regulatory Guide 1.97 endorses IEEE Standard 497-2002, "IEEE Standard Criteria for Accident Monitoring Instrumentation for Nuclear Power Generating Stations," with exceptions. IEEE Std 497-2002 is intended to supersede IEEE Std 497-1981 and IEEE Std 497-1983. This revised Standard provides a consolidated source of post-accident monitoring requirements, the associated bases, and a new method for selecting and applying criteria to accident monitoring instrumentation. It is primarily intended for new nuclear power plants, though it also contains appropriate guidance and provides a flexible basis for making changes to such systems in operating plants.

In our letter dated March 28, 2006, we recommended that Draft Final Revision 4 to Regulatory Guide 1.97 not be issued in its then current form. In particular, we stated, "The staff should revise Regulatory Position 1 to allow licensees to adopt the IEEE 497-2002 Standard to modify individual accident monitoring instruments without a complete analysis of all accident monitoring instrumentation." We agreed with the staff's position "that licensees should not be allowed to use the IEEE 497-2002 Standard to eliminate or reclassify accident monitoring instrumentation required by previous editions of this Standard unless Revision 4 to Regulatory Guide 1.97 is adopted in its entirety."

May 17, 2006

The staff has now proposed a more flexible alternative to Regulatory Position 1. Specifically, the staff deleted the previous guidance regarding partial conversions and added the following new guidance regarding modifications:

"If the licensee voluntarily uses the criteria in Revision 4 of this guide to perform modifications that do not involve a conversion, the licensee should first perform an analysis to determine the complete list of accident monitoring variables and their associated types in accordance with the selection criteria in Revision 4."

The staff's proposed change to Regulatory Position 1 meets the intent of our recommendations. It provides assurance that the licensee and the staff will have the information needed to review the basis for proposed modifications. It provides sufficient flexibility to apply IEEE Std 497-2002 to accident monitoring instrument replacements and modifications in existing plants.

Sincerely,



Graham B. Wallis  
Chairman

References:

1. Memorandum from C. Paperiello, Director, Office of Nuclear Regulatory Research, to J. Larkins, Executive Director, Advisory Committee on Reactor Safeguards, Subject: Request for ACRS Review of Regulatory Guide 1.97, "Criteria for Accident Monitoring Instrumentation for Nuclear Power Plants," Revision 4, dated January 30, 2006.
2. Regulatory Guide 1.97 (Draft was issued as DG-1128, dated June 2005), "Criteria for Accident Monitoring Instrumentation for Nuclear Power Plants," Revision 4, dated April 2006.
3. IEEE Standard 497-2002, "IEEE Standard Criteria for Accident Monitoring Instrumentation for Nuclear Generating Stations," dated September 30, 2002.
4. Letter from G. Wallis, Chairman, Advisory Committee on Reactor Safeguards, to L. Reyes, Executive Director for Operations, NRC, Subject: Draft Final Revision 4 to Regulatory Guide 1.97, "Criteria for Accident Monitoring Instrumentation for Nuclear Power Plants," dated March 28, 2006.
5. Letter from L. Reyes, Executive Director for Operations, NRC, to G. Wallis, Chairman, Advisory Committee on Reactor Safeguards, Subject: Draft Final Revision 4 to Regulatory Guide 1.97, "Criteria for Accident Monitoring Instrumentation for Nuclear Power Plants," dated April 20, 2006.