

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

NONCONFORMANCE REPORT

15/61

Project No. 20-1402-571

NCR No. 99-01

PART 1: DESCRIPTION OF NONCONFORMANCE

During CNWRA QA surveillance activities a discrepancy was discovered with material analysis reports of C-22 material. Acceptable reports were obtained from the manufacturer of the material; however, when the material was sent to Conam Kavin for duplicate analysis, conflicting analysis reports showed different, and at times, out of specification elemental percentages.

Initiated by: Mark R. Ehnstrom

Date: 1 Mar 99

PART 2: PROPOSED DISPOSITION AND CORRECTIVE ACTION

Disposition: The vendor supplied analysis of the material is considered to be accurate and the materials used for testing are considered to be within spec. and acceptable.

Basis of Disposition:

We believe, based on historical experience and independent analysis using scanning electron microscope - energy dispersive analyses, that the Kavin analyses for this alloy are inaccurate. The reasons for this inaccuracy are not clear but it is suspected that the procedure they use for sample preparation

Action to correct nonconformance:

prior to wet chemical analysis is inadequate for alloy C-22 due to its high resistance to corrosion.

We will send blind samples to another analysis lab (Hamm) for verification. We will also perform SEM-EDS analysis for major alloying elements.

Target date for completion: 5/9/99

Proposed by: N. SRIDHAR

Date: 3/16/99

PART 3: APPROVAL

Element Manager: N. Sridhar

Date: 3/16/99

Director of QA: Don Dunn

Date: 3/16/99

Comments/Instructions: There have been almost daily discussions with D. Dunn as he has tried to resolve this issue. I am attaching an email message and D. Dunn has experienced problems in getting clear responses from Conam Kavin. I am accepting this slightly delayed response. Don

PART 4: CLOSE OUT

Comments: See memo written by D. Dunn 5/14/99. QA is hereby verifying that all activities associated with this NCR are complete and this is now closed.

Verified by: Don Dunn

Date: 5/14/99

Distribution:

QA Records (Orig.)
M. Ehnstrom
N. Sridhar
D. Dunn
B. Sagar
H. Garcia

ALL ELEMENT MANAGERS