



## Department of Energy

Office of Civilian Radioactive Waste Management  
Yucca Mountain Site Characterization Office  
P.O. Box 364629  
North Las Vegas, NV 89036-8629

QA: N/A

**JAN 31 2002**

OVERNIGHT MAIL

C. William Reamer, Chief  
High-Level Waste Branch  
Division of Waste Management  
Office of Nuclear Materials Safety and Safeguards  
U. S. Nuclear Regulatory Commission  
Two White Flint North  
Rockville, MD 20852

### TRANSMITTAL OF WELD SAMPLES OF ALLOY C-22

Reference: Ltr, Reamer to Brocoum, dtd 10/22/01

In the referenced letter, the U.S. Nuclear Regulatory Commission (NRC) and the Center for Nuclear Waste Regulatory Analysis (CNWRA) requested Welded Samples of Alloy C-22. Lists of the samples requested and the samples we are providing are as follows:

<b>Requested</b>	<b>Shipped</b>
Corrosion Test Samples Narrow Groove GTAW 37.9" x 4" x 1.5" 0.050" each Double-U Groove-PT on back side of root pass Remainder 10% RT&PT	Corrosion Test Samples Narrow Groove-GTAW, 19" x 7 3/4" x 1.5" <b>ID-D62X</b>
Strain Test Samples Optimized GTAW 12" x 4" x 0.75" 0.047" Single-U Groove PT UT	Strain Test Samples Optimized GTAW, 5 13/16" x 7 7/16" x 1 1/4" <b>ID-OT4X</b>
Strain Test Samples Narrow-Groove GTAW 12" x 4" x 0.75" 0.090" Single-U Groove PT UT	<b>Samples were not available due to destructive testing prior to receipt of this request</b>
Strain Test Samples PAW 12" x 4" x 0.75" 0.4375" Single-U Groove PT UT	Strain Test Samples PAW 5 7/8" x 7 3/4" x 1 1/4" <b>ID-PA3X</b>

Differences between the samples requested and those being provided have been discussed with Tae M. Ahn of your staff, and Vijay Jain of the CNWRA, who indicated that these differences were acceptable.

*Wm. Reamer*  
*Wm. Reamer*

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Included with the requested samples is the following documentation:

- Copies of the mill certificates for the base metal and weld filler wire;
- Confirmatory Analysis of the material and weld wire;
- Weld procedure specifications;
- Weld procedure qualification records and welder qualification records;
- Weld Control Records;
- Nondestructive Examination results;
- Process Travelers;
- Nonconformance Reports; Safety Document Change Notices; and Quality Control Inspection Reports; and
- Copy of the FY-2001 Corrosion Plate Report and Strain Study Report.

As per your request, the materials listed above were shipped on January 18, 2002, to:

Dr. Vijay Jain  
Southwest Research Institute/Div. 20  
Center for Nuclear Waste Regulatory Analysis  
6220 Culebra Road, Building 189  
San Antonio, TX 78238-5166

If you require any additional information, please contact Timothy C. Gunter at (702) 794-1343.



Stephan Brocoum  
Assistant Manager, Office of  
Licensing and Regulatory Compliance

OL&RC:TCG-0562

cc:

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A. B. Brownstein, DOE/HQ (RW-52) FORS  
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cc: (continued)

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