

# CATEGORY 1

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 MCCORMICK, M.J.      Niagara Mohawk Power Corp.  
 RECIP. NAME      RECIPIENT AFFILIATION  
                                  Document Control Branch (Document Control Desk)

SUBJECT: Requests NRC approval of weld overlay repair IAW GL 88-01,  
 "NRC Position on IGSCC in BWR Austenitic Stainless Steel  
 Piping."

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 TITLE: GL 94-03 Intergranular Stress Corrosion Cracking of Core Shrouds in B

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NIAGARA MOHAWK

GENERATION  
BUSINESS GROUP

NINE MILE POINT NUCLEAR STATION/LAKE ROAD, P.O. BOX 63, LYCOMING, NEW YORK 13093/TELEPHONE (315) 349-2660  
FAX (315) 349-2605

MARTIN J. MCCORMICK JR. P.E.  
Vice President  
Nuclear Engineering

May 15, 1997  
NMP1L 1220

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

RE: Nine Mile Point Unit 1  
Docket No. 50-220  
DPR-63

Subject: *Generic Letter 88-01, "NRC Position on IGSCC and BWR Austenitic Stainless Steel Piping"*

Gentlemen:

In accordance with Generic Letter (GL) 88-01, "NRC Position on IGSCC in BWR Austenitic Stainless Steel Piping" and the NRC's Safety Evaluation Reports (SER) for Nine Mile Point Unit 1 (NMP1) on GL 88-01, dated May 15, 1990 and June 24, 1991, this letter is to request NRC approval of a weld overlay repair. A through-wall pin hole leak in a bimetallic (carbon piping to stainless steel nozzle) weld (33-FW-22) in the non safety related and isolable portions of the Reactor Water Cleanup System (RWCU) has been discovered. Based upon our evaluation and confirmed by our consultant MPR Inc., this leak resulted from a 7/16" axial crack that has been classified as having Intergranular Stress Corrosion Cracking (IGSCC) in an area that was reworked during replacement of the stainless steel piping with carbon steel piping in 1977 (see attached Radiographic Examination Report NDE Report 1-5.00-97-0005). Our plan to repair this weld is to perform a weld overlay which will restore the structural strength of the weldment such that it will withstand design basis loads.

///  
A018

The design of the overlay is being performed in accordance with NUREG 0313 Rev. 2 and elements of ASME Code Case N504, which is endorsed in Regulatory Guide 1.147. These analyses will be available for staff review when completed on Friday, May 16, 1997. Once installed, the weld overlay will assure structural integrity of this weldment.

To assure that this weld failure is an isolated incident, NMPC will perform additional ultrasonic examinations on a sample of three RWCU welds. This sample size is based on the planned sample expansion criteria used during outages for RWCU inspections performed to comply with GL 88-01. If additional indications are found, all of the welds in the RWCU system which are subject to GL 88-01, augmented inspection requirements will be inspected.

9705200129 970515  
PDR ADOCK 05000220  
P PDR



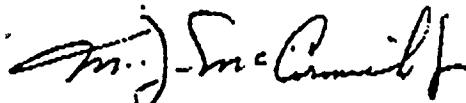


Page 2

NMP1 has performed ultrasonic (UT) examinations on six welds in the RWCU system outside of the Containment Isolation Valves (CIV) in accordance with GL 88-01, Supplement 1. Of the six welds, three have been UT examined each refueling outage for the last three operating cycles (RFO12, 13, and 14). The sample expansion of three welds will bring the total IGSCC Category G welds examined outside of the CIVs to nine (two welds which have never been examined for GL 88-01 and one which was previously examined during RFO12). Therefore, 28 percent of the welds (32) in this population will have been examined; this includes 33-FW-22, which will be UT examined and be reclassified to a IGSCC Category E. It is to be noted that weld 33-FW-22 was added to the GL 88-01 program as part of the program review associated with LER 96-08.

We currently expect the repair and augmented examinations to be completed by 2:00 p.m., Friday, May 16, 1997. Assuming no further inspections are indicated based on results of the three additional examinations, Nine Mile Point Unit 1 could be ready to resume operation (mode switch to startup) as early as midnight on May 16, 1997. It is recognized that restart will require NRC approval for this weld repair and related inspections. We stand ready to support your review with any additional information that may be required.

Sincerely,



Martin J. McCormick Jr.

Vice President - Nuclear Engineering

MJM/GJG/cmk  
Attachment

xc: Mr. H. J. Miller, Regional Administrator, Region I  
Mr. B. S. Norris, Senior Resident Inspector  
Mr. S. S. Bajwa, Acting Director, Project Directorate I-1, NRR  
Mr. D. S. Hood, Senior Project Manager, NRR  
Records Management



RADIOGRAPHIC EXAMINATION REPORT

NIAGARA MOHAWK

RT EXAMINATION REPORT

Nine Mile Point Unit 1
ISO/Dwg.:
System: CW Rx w/TC Clean up

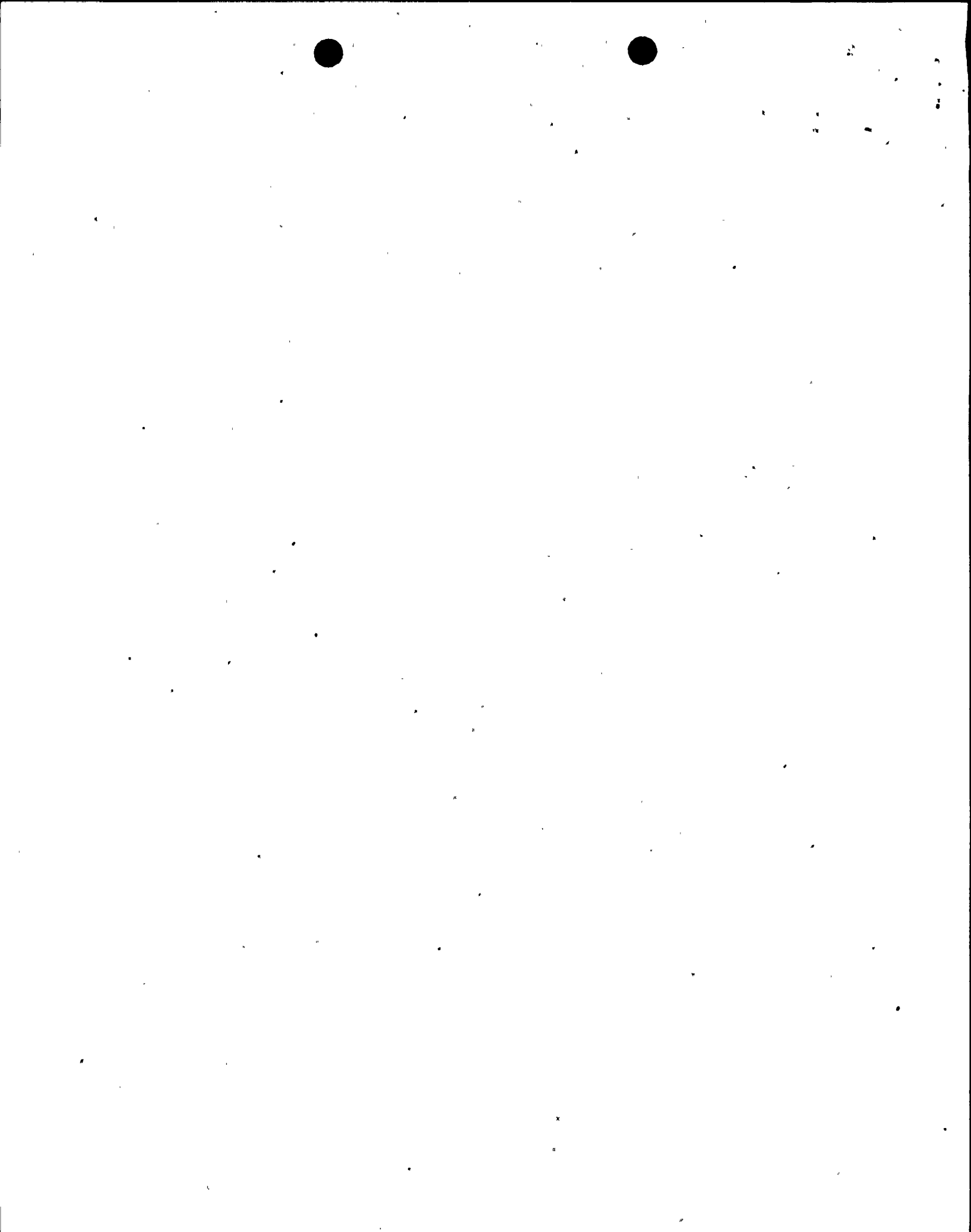
NDE Report: 1-5-00-97-0005
Page 1 of 2
Work Document: W.D. 97-02246-05
Exam Item: 37-EW-22
Procedure: NDEP-R.T.-500 Rev. 02

Material Type: CS/SS
Joint Type: Butt
Base Metal Thickness: .432
Weld Thickness: .494
Pipe Diameter or Weld Length: 21
Radiation Source and S/N: SR172
No. of Curies: 47 KV: 40 MA: 210
Source to Object Distance: 6.506
Object to Film Distance: .494
Film Load: Single Double X Other
Processing: Manual X Auto
Densitometer Number: 18577
Welding Process(es) Used: TIG-SMAW
Penetrameter Material and No.: ASTM # 15 SS
Location: Film Side: X Source Side: Required T Hole: 21
Shim Material and Thickness:
Screen Material and Thickness: Front: .012 Back: .010
Technique Used: DWI/SW
Geometric Unsharpness (UG): .012

Table with columns: Weld S/N, Amp or Intensity, Porosity, Slag Inclusions, Cracks, Incomplete Fusion, Incomplete Penetration, Undercut, Burn Thru/Back Back, Film Artifact, Tungsten Inclusions, High-Low, No Apparent Defect, Penetrameter Density, Area of Interest Density, Accept, Reject, Film Interpretation, Level, Date.

Remarks:
Diagram showing a pipe section with a 6" Tee and a 1" Branch.
New 'O' marker is due west, old 'O' marker is due south.
Exam Item Acceptable? Yes [checked] No

Acceptance Criteria: ANSI B 31.1
Examiner 1: Joe Oliver Jr. Level: III Date: 5/15/97
Examiner 2: Ken Kemp Level: II Date: 5/15/97
Reviewer: J.J. Calento Level: IV Date: 5-15-97
Date Reviewed? Yes [checked] No
Reviewer: [Signature]



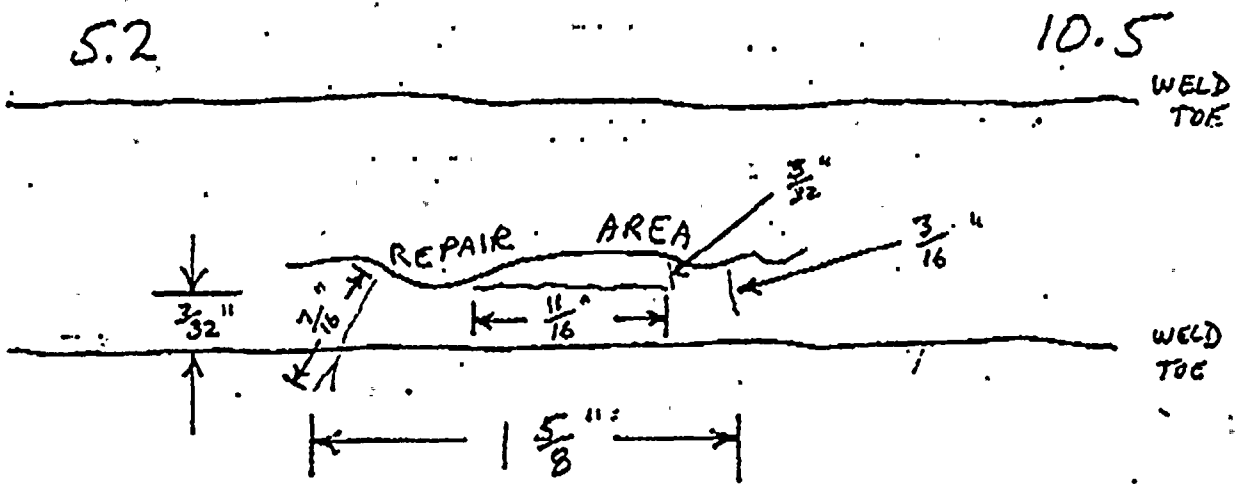




SKETCH SHEET

Plant/Unit: Nine Mile Point Unit 1  
ISO/Dwg.: C-26852-C  
System: 33

NDE Report: 1-5.00-97-0005  
Work Document: W.D.  
Page 2 of 2  
Exam Item: 37-FW-22  
Procedure/Rev.: NDEP-P-T-C-80 Rev. 1



NOT TO SCALE  
--ENLARGED TO SHOW  
DETAIL--

Examiner 1: J. OLIVER RGEE Level: III Company: RGEE Date: 5-15-97  
 Examiner 2: K. KEMP Level: II Company: RGEE Date: 5-15-97  
 Reviewer 1: J.J. Calvito Level: III Company: NMPC Date: 5-15-97  
 ANII: \_\_\_\_\_ Date: \_\_\_\_\_





NINE MILE POINT NUCLEAR STATION  
P.O. BOX 63, LYCOMING, NEW YORK 13093

FAX COVER LETTER

NINE MILE POINT UNIT 2

FROM: FAX TELEPHONE NUMBER: (315) 349-1400

NAME: *Greg Gresock*

DEPARTMENT: LICENSING/ENVIRONMENTAL

TELEPHONE NUMBER: *349 7010*

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TO: *Sigh Bajwa*

*301 415 2102*

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