

LICENSEE: Niagara Mohawk Power Corporation

April 1, 1997

FACILITY: Nine Mile Point Nuclear Station Unit No. 1

SUBJECT: TELECOPIED INFORMATION ON CORE SHROUD WELD INSPECTIONS
(TAC NO. M98170)

On March 20, 1997, the NRC staff participated in a telephone conference with Niagara Mohawk Power Corporation (licensee) to discuss, in part, the licensee's observations from inspections of core shroud vertical welds V9 and V10 at Nine Mile Point Nuclear Station Unit No. 1 (See NRC telephone conversation summary dated March 24, 1997). Enclosure 2 of that summary included results of the ultrasonic inspection of vertical welds V9 and V10 that was telecopied to the NRC prior to the telephone conference. The licensee stated during the telephone conference that it would expand the inspection sample to include other shroud welds in accordance with criteria in Boiling Water Reactor Vessel Internal Project (BWRVIP07), "Guidelines for Reinspection of BWR Core Shrouds," and would provide results of these inspections to the NRC as they became available.

Accordingly, the enclosures to this memorandum are copies of the core shroud inspection results and schedules that the licensee has telecopied to the NRC staff since the March 20, 1997, telephone conversation.

Sincerely,

/s/

Darl S. Hood, Senior Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-220

Enclosures:

1. March 24, 1997, Preliminary Schedule
2. March 24, 1997, Inspection Plan and Results for Welds H4, H5, H6A and H6B
3. March 26, 1997, Inspection Plan and Results for Welds V7, H7, and V8
4. March 27, 1997, Results for Welds V3, V4, V7, and V8
5. March 31, 1997, Results for Welds V4, V15, V16, H5, H4, and H8

cc w/encls: See next page

DISTRIBUTION:

See next page

DOCUMENT NAME: G:\NMP1\NM198170.FAX

To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

OFFICE	PM: PDI-1	E	LA: PDI-1	D: PDI-1				
NAME	DHood/rsf	SLittle	SBajwa					
DATE	04/01/97	04/01/97	04/01/97					

Official Record Copy

9704040178 970401
PDR ADOCK 05000220
G PDR

NRC FILE CENTER COPY



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

April 1, 1997

LICENSEE: Niagara Mohawk Power Corporation
FACILITY: Nine Mile Point Nuclear Station Unit No. 1
SUBJECT: TELECOPIED INFORMATION ON CORE SHROUD WELD INSPECTIONS
(TAC NO. M98170)

On March 20, 1997, the NRC staff participated in a telephone conference with Niagara Mohawk Power Corporation (licensee) to discuss, in part, the licensee's observations from inspections of core shroud vertical welds V9 and V10 at Nine Mile Point Nuclear Station Unit No. 1 (See NRC telephone conversation summary dated March 24, 1997). Enclosure 2 of that summary included results of the ultrasonic inspection of vertical welds V9 and V10 that was telecopied to the NRC prior to the telephone conference. The licensee stated during the telephone conference that it would expand the inspection sample to include other shroud welds in accordance with criteria in Boiling Water Reactor Vessel Internal Project (BWRVIP07), "Guidelines for Reinspection of BWR Core Shrouds," and would provide results of these inspections to the NRC as they became available.

Accordingly, the enclosures to this memorandum are copies of the core shroud inspection results and schedules that the licensee has telecopied to the NRC staff since the March 20, 1997, telephone conversation.

Sincerely,

A handwritten signature in cursive script, reading "Darl S. Hood".

Darl S. Hood, Senior Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-220

Enclosures:

1. March 24, 1997, Preliminary Schedule
2. March 24, 1997, Inspection Plan and Results for Welds H4, H5, H6A and H6B
3. March 26, 1997, Inspection Plan and Results for Welds V7, H7, and V8
4. March 27, 1997, Results for Welds V3, V4, V7, and V8
5. March 31, 1997, Results for Welds V4, V15, V16, H5, H4, and H8

cc w/encls: See next page

Niagara Mohawk Power Corporation

cc:

Mr. B. Ralph Sylvia
Executive Vice President
Generation Business Group
and Chief Nuclear Officer
Niagara Mohawk Power Corporation
Nuclear Learning Center
450 Lake Road
Oswego, NY 13126

Mr. Richard B. Abbott
Vice President and General Manager -
Nuclear
Niagara Mohawk Power Corporation
Nine Mile Point Nuclear Station
P.O. Box 63
Lycoming, NY 13093

Mr. Martin J. McCormick, Jr.
Vice President
Nuclear Safety Assessment
and Support
Niagara Mohawk Power Corporation
Nine Mile Point Nuclear Station
P.O. Box 63
Lycoming, NY 13093

Mr. Kim A. Dahlberg
General Manager - Projects
Niagara Mohawk Power Corporation
Nine Mile Point Nuclear Station
P.O. Box 63
Lycoming, NY 13093

Mr. Norman L. Rademacher
Plant Manager, Unit 1
Nine Mile Point Nuclear Station
P.O. Box 63
Lycoming, NY 13093

Ms. Denise J. Wolniak
Manager Licensing
Niagara Mohawk Power Corporation
Nine Mile Point Nuclear Station
P.O. Box 63
Lycoming, NY 13093

Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

Nine Mile Point Nuclear Station
Unit No. 1

Resident Inspector
U.S. Nuclear Regulatory Commission
P.O. Box 126
Lycoming, NY 13093

Charles Donaldson, Esquire
Assistant Attorney General
New York Department of Law
120 Broadway
New York, NY 10271

Mr. Paul D. Eddy
State of New York
Department of Public Service
Power Division, System Operations
3 Empire State Plaza
Albany, NY 12223

Mr. F. William Valentino, President
New York State Energy, Research,
and Development Authority
Corporate Plaza West
286 Washington Avenue Extension
Albany, NY 12203-6399

Mark J. Wetterhahn, Esquire
Winston & Strawn
1400 L Street, NW
Washington, DC 20005-3502

Supervisor
Town of Scriba
Route 8, Box 382
Oswego, NY 13126

Gary D. Wilson, Esquire
Niagara Mohawk Power Corporation
300 Erie Boulevard West
Syracuse, NY 13202

DISTRIBUTION:

Hard Copy

Docket File
PUBLIC

PDI-1 R/F
OGC

ACRS

E-Mail

S. Collins/F. Miraglia
R. Zimmerman
S. Varga
J. Zwolinski
S. Bajwa
D. Houd
S. Little
D. Ross
G. Lainas

R. Wessman
R. Herman
J. Strosnider
K. Wickman
R. Frahm, Sr.
T. Green
J. Rajan
M. Bani
W. Gleaves

G. Carpenter
B. Sheron
K. Manoly
C. Cowgill, RI
L. Doerflein, RI
W. Dean, EDO
G. Holahan

DF01/1

040040



Schedule

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: *STEVE LEONARD*

DEPARTMENT: LICENSING/ENVIRONMENTAL

TELEPHONE NUMBER: *315-349-4039*

FAX #

TO: *DALL HOOD*

301-415-1884
2102

TOTAL NUMBER OF PAGES FAXED (INCLUDING COVER LETTER): *2*

DATE: *3-24-97* TIME: *2:15 pm* *3:15 pm* *3:35*

MESSAGE: *INSPECTION INFORMATION*

**NMPI PRELIMINARY MILESTONE SCHEDULE
FOR SHROUD TIE-ROD ROOT CAUSE AND INSPECTION ANALYSIS**

3/24/97	Information update package.
3/26/97	Information update package.
3/28/97	Information update package.
3/31/97	Potential discussion of root cause for tie-rod and information update package.
4/1/97	Draft submittal of tie-rod repair and analysis.*
4/3/97	Potential meeting for review of 50.55a submittal.*

* Subject to inspection data acquisition during week of 3/28/97.



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

H4, H5,

H6A, H6B

FAX COVER LETTER

NINE MILE POINT UNIT 2

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

NAME: STEVE LEONARD

DEPARTMENT: LICENSING/ENVIRONMENTAL

TELEPHONE NUMBER: 315-349-4039

FAX #

TO: DALL HOOD

301-415-1884

TOTAL NUMBER OF PAGES FAXED (INCLUDING COVER LETTER): 6

DATE: 3-24-87 TIME: 2:15 pm.

MESSAGE: INSPECTION INFORMATION.

ENCLOSURE 2



NMP1 REFOUT97 SHROUD INSPECTION PLAN

Weld	Find	Arizimuth	Eddy	Brush OD	Brush ID	EVT OD	EVT ID	UT OD	Note	Status
V9	Complete	10 Deg	No	Complete	Complete	Complete	Complete	Complete		Complete
V10	Complete	190 Deg	No	Complete	Complete	Complete	Complete	Complete		Complete
V11	Complete	110 Deg	Complete	Complete	Complete	Complete	Complete	n/a	Lmin=16" - Full Length	Complete
V12	Complete	290 Deg	Complete	Complete	Complete	Complete	Complete	?	Lmin=16" - H5 & Down	Complete
V7	Complete	45 Deg	No	Complete	Complete	Complete	Complete	x ID	Lmin=10" - Full Length	
V7	Complete	45 Deg	No	Complete	Complete	Complete	Complete	n/a	Lmin=10" - Full Length	Re-Shoot - Completed - Rejected
V8	Complete	225 Deg	No	Complete	Complete	Complete	Complete	x ID	Lmin=10" - Full Length	
V8	Complete	225 Deg	No	Complete	Complete	Complete	Complete	n/a	Lmin=10" - Full Length	Re-shoot - Complete - Rejected
V3	Complete	62 Deg	No	Complete	n/a	Complete	n/a	Complete	Lmin=12" - OD Only	Complete - 1.25 scans
V4	Working	242 Deg	No	n/a	n/a	n/a	n/a	Working	Lmin=12" - OD Only	Working
V15	Complete	92 Deg	No	n/a	n/a	n/a	n/a	Complete	Lmin=11" - OD Only	Complete - 10.5" Accessible
V18	Complete	275 Deg	No	Complete	n/a	Complete	n/a	Complete	Lmin=11" - OD Only	Complete - 10.8" Accessible
H4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Complete	OD Tracker	Complete - All Accessible Areas
H4	n/a	n/a	n/a	Complete	Working	Working	x	n/a	Tracker Unaccess Area	Working
H5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Complete	OD Tracker	Complete - All Accessible Areas
H5	n/a	n/a	n/a	Complete	Working	Working	x	n/a	Tracker Unaccess Area	Working
H6a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Complete	OD Tracker	Complete - All Accessible Areas
H6b	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Complete	OD Tracker	Complete - All Accessible Areas
H7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Complete	OD Tracker	Complete
H8	n/a	n/a	n/a	n/a	n/a	n/a	n/a	x	OD Tracker	Reconfiguring
V5	Either/Or	x	x	x	n/a	x	n/a	n/a		
V6	Either/Or	x	x	x	n/a	x	n/a	n/a		

x = Activity Needed but Not Started

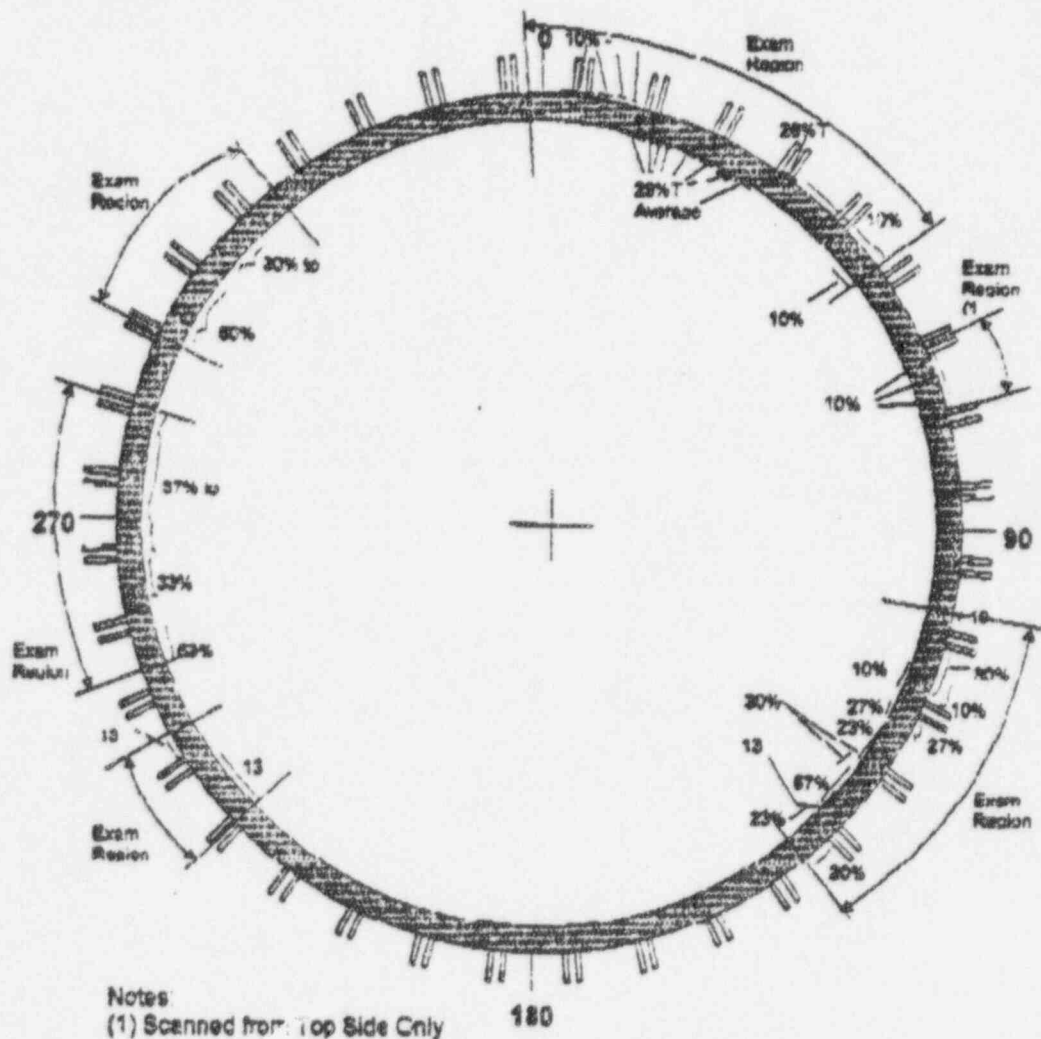
3/24/97 6:22



GE Nuclear Energy

Niagara Mohawk Power Corporation
Nine Mile Point - Unit 1

Ultrasonic Examination Indication Map For Core Shroud Weld H4 Note: Scanned From Bottom Side of Weld Only

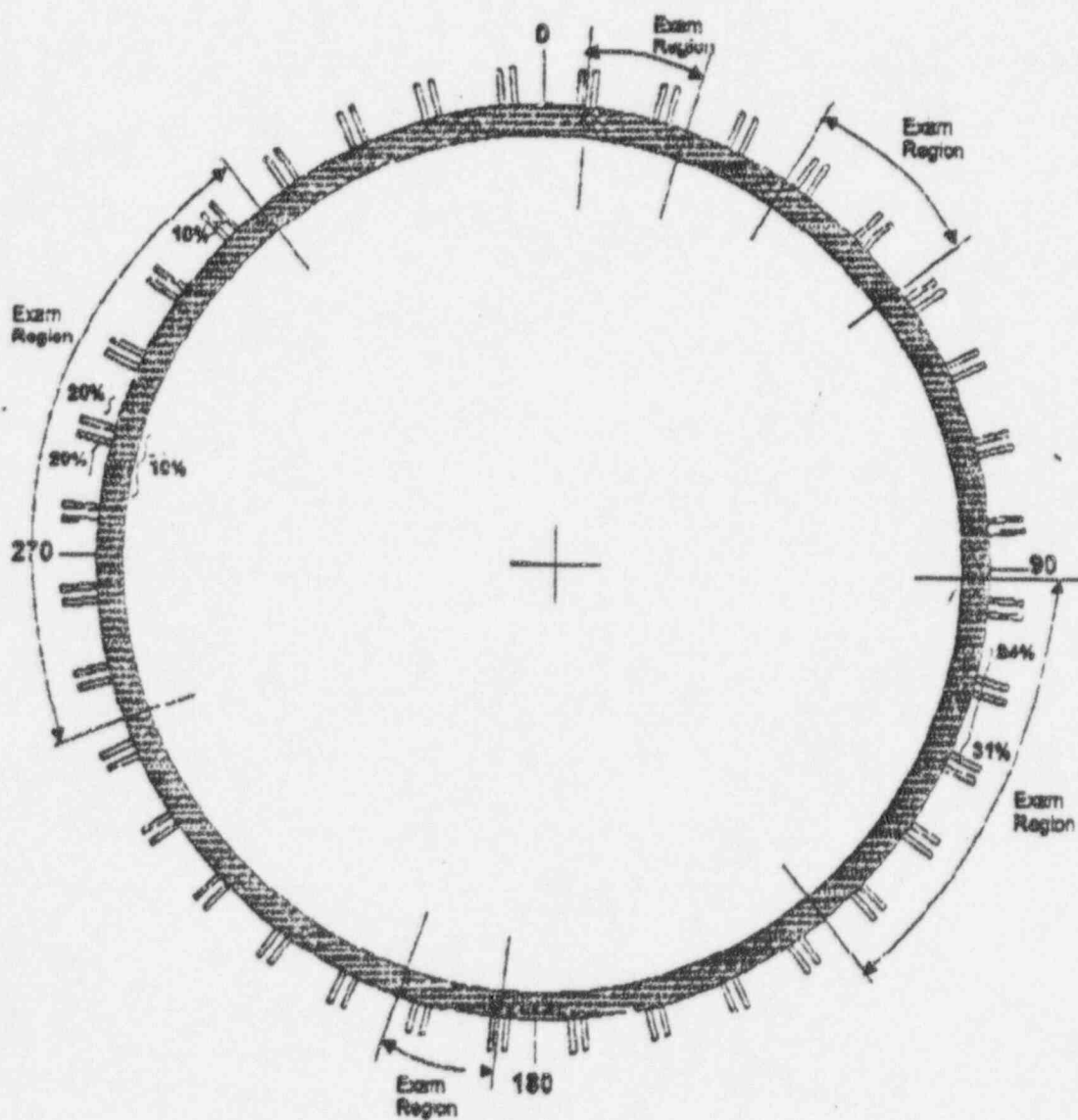


Weld H4 Flaw Map

**GE Nuclear Energy**Niagara Mohawk Power Corporation
Nine Mile Point - Unit 1

Ultrasonic Examination Indication Map For Core Shroud Weld H5

Note: Scanned From Both Top and Bottom Sides of Weld

**Weld H5 Flaw Map**



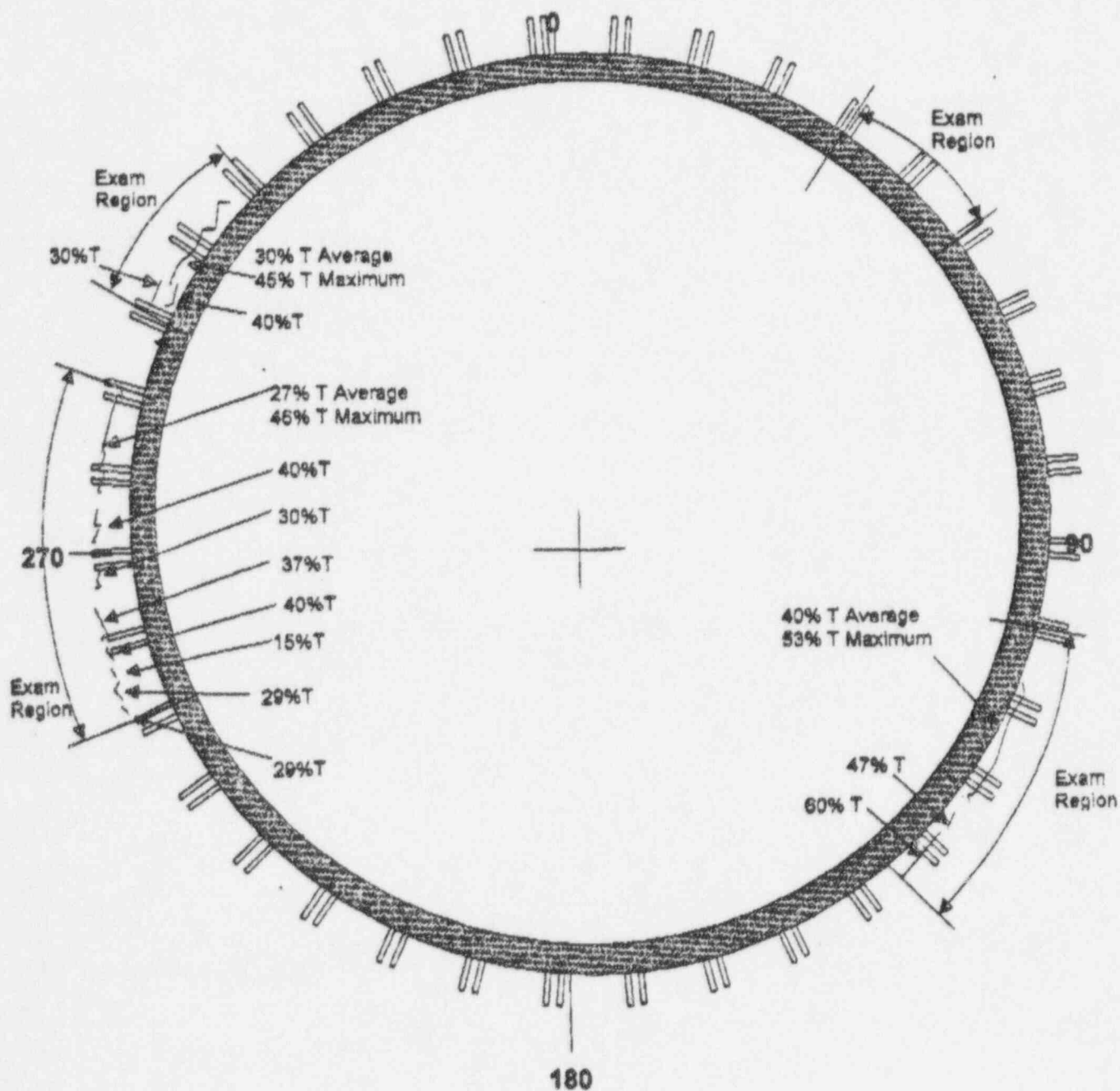
GE Nuclear Energy

Niagara Mohawk Power Corporation
Nine Mile Point - Unit 1

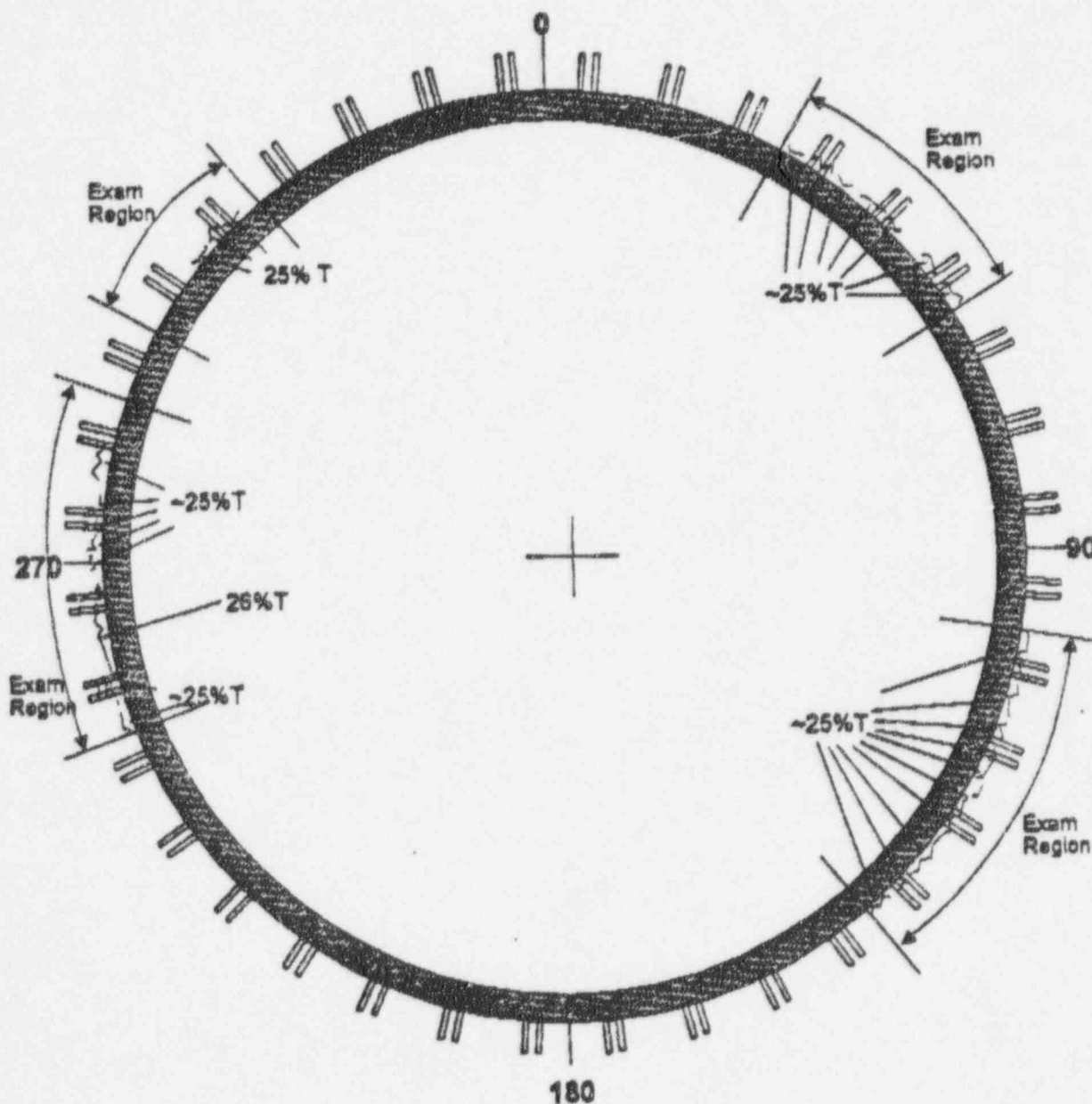
Ultrasonic Examination Indication Map For Core Shroud Weld H6A

Note: Scanned From Both Top and Bottom Sides of Weld

Note: All Flaws Originate On Forged Ring (Lower) Side Of Weld.



Weld H6A Flaw Map

**GE Nuclear Energy****Niagara Mohawk Power Corporation
Nine Mile Point - Unit 1****Ultrasonic Examination Indication Map For Core Shroud Weld H6B****Note: Scanned From Both Top and Bottom Sides of Weld****Note: All Flaws Originate On Forged Ring (Upper) Side Of Weld.****Weld H6B Flaw Map**



V7, H7, V8

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

FAX COVER LETTER

NINE MILE POINT UNIT 2

FROM: FAX TELEPHONE NUMBER: (315) 349-1400
NAME: Steve Leonard
DEPARTMENT: LICENSING/ENVIRONMENTAL
TELEPHONE NUMBER:

FAX #

TO: DARL HOOD

301 415 2102

TOTAL NUMBER OF PAGES FAXED (INCLUDING COVER LETTER): 5

DATE: 3-26-97 TIME: 1:40

MESSAGE: NMPI SHOULD UPDATE

ENCLOSURE 3



NMP1 REFOUT97 SHROU'D INSPECTION PLAN

Weld	Find	azimuth	Eddy	Brush OD	Brush ID	EVT OD	EVT ID	UT OD	Note	Status
V9	Complete	10 Deg	No	Complete	Complete	Complete	Complete	Complete		Complete
V10	Complete	90 Deg	No	Complete	Complete	Complete	Complete	Complete		Complete
V11	Complete	10 Deg	Complete	Complete	Complete	Complete	Complete	n/a	Lmin=16" - Full Length	Complete
V12	Complete	90 Deg	Complete	Complete	Complete	Complete	Complete	n/a	Lmin=16" - H5 & Down	Complete
V7	Complete	15 Deg	No	Complete	Complete	Complete	Complete	Complete	Lmin=10" - Full Length	8.5" Scanned ID - Complete
V7	Complete	15 Deg	No	Complete	Complete	Complete	Complete	n/a	Lmin=10" - Full Length	Re-Shoot - Completed - Rejected
V8	Complete	25 Deg	No	Complete	Complete	Complete	Complete	Working	Lmin=10" - Full Length	6.5" Scanned ID - Complete
V8	Complete	25 Deg	No	Complete	Complete	Complete	Complete	n/a	Lmin=10" - Full Length	Re-shoot - Complete - Rejected
V3	Working	x	No	Complete	n/a	Complete	n/a	x	Lmin=12" - OD Only	Original Scan Not Weld
V4	Working	x	No	n/a	n/a	n/a	n/a	x	Lmin=12" - OD Only	
V15	Complete	12 Deg	No	n/a	n/a	n/a	n/a	Complete	Lmin=11" - OD Only	Complete - 10.5" Accessible
V16	Complete	75 Deg	No	Complete	n/a	Complete	n/a	Complete	Lmin=11" - OD Only	Complete - 10.5" Accessible
H4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Complete	OD Tracker	Complete - All Accessible Areas
H4	n/a	n/a	n/a	Complete	x	Working	x	n/a	Tracker Unaccess Area	Working
H5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Complete	OD Tracker	Complete - All Accessible Areas
H5	n/a	n/a	n/a	Complete	x	Working	x	n/a	Tracker Unaccess Area	Working
H6a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Complete	OD Tracker	Complete - All Accessible Areas
H6b	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Complete	OD Tracker	Complete - All Accessible Areas
H7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Complete	OD Tracker	Complete - All Accessible Areas
H8	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Complete	OD Tracker	Complete - All Accessible Areas
V5	Either/Or	x	x	x	n/a	x	n/a	n/a		
V6	Either/Or	x	x	x	n/a	x	n/a	n/a		

x = Activity Needed but Not Started

3/25/97 10:37

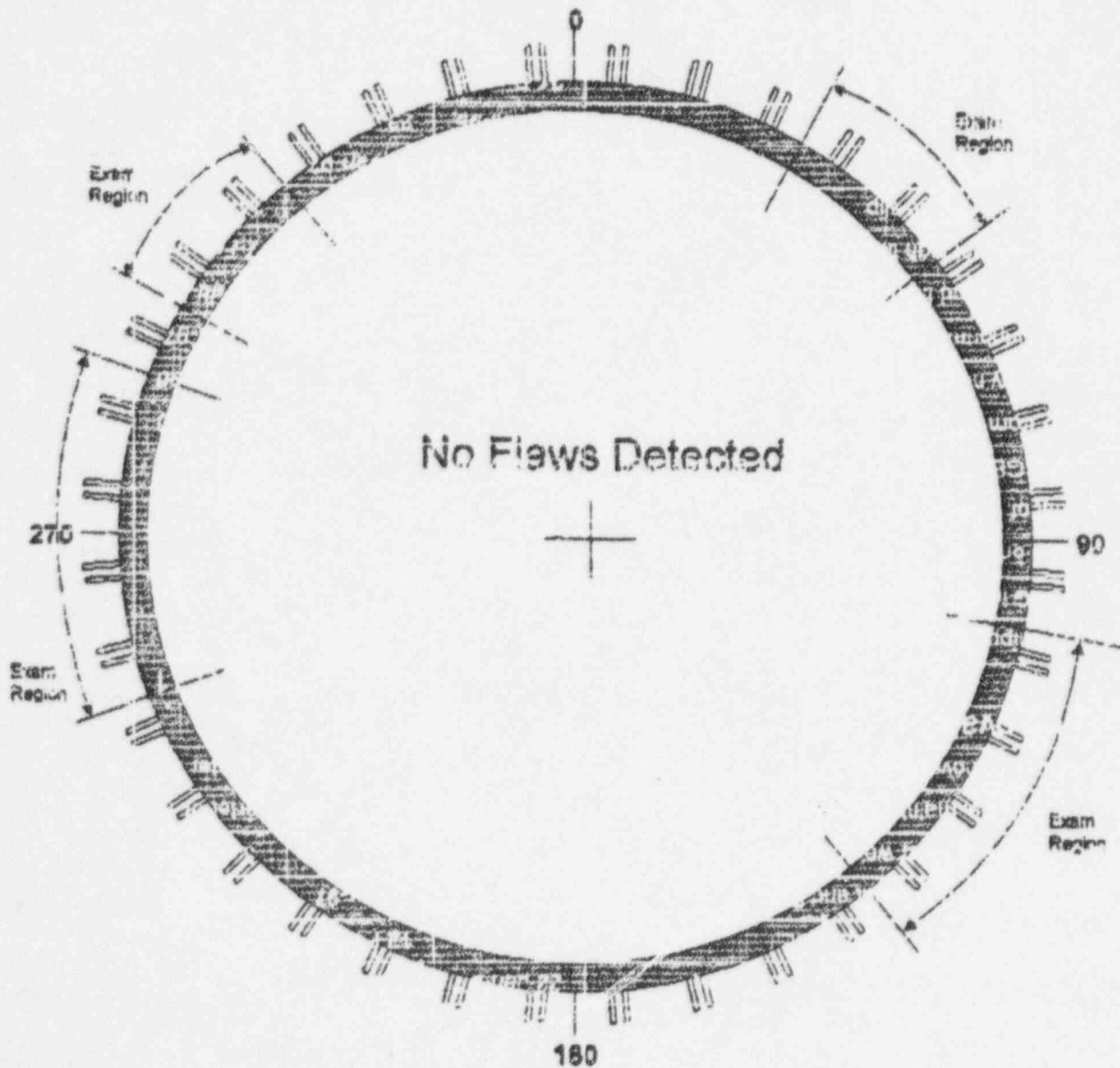


GE Nuclear Energy

Nisegs Mohawk Power Corporation
Nine Mile Point - Unit 1

Ultrasonic Examination Indication Map For Core Shroud Weld H7

Note: Scanned From Top Side of Weld Only



Weld H7 Flaw Map

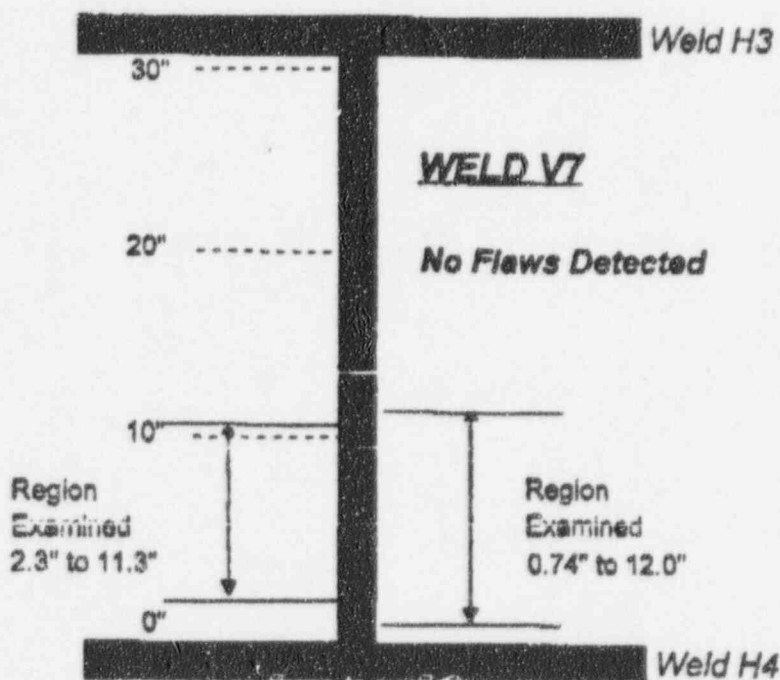
Core Shroud Examination Project - 1997



GE Nuclear Energy

Niagara Mohawk Power Corporation
Nine Mile Point - Unit 1

Ultrasonic Examination Indication Map For Core Shroud Weld V7



Core Shroud Examination Project - 1997

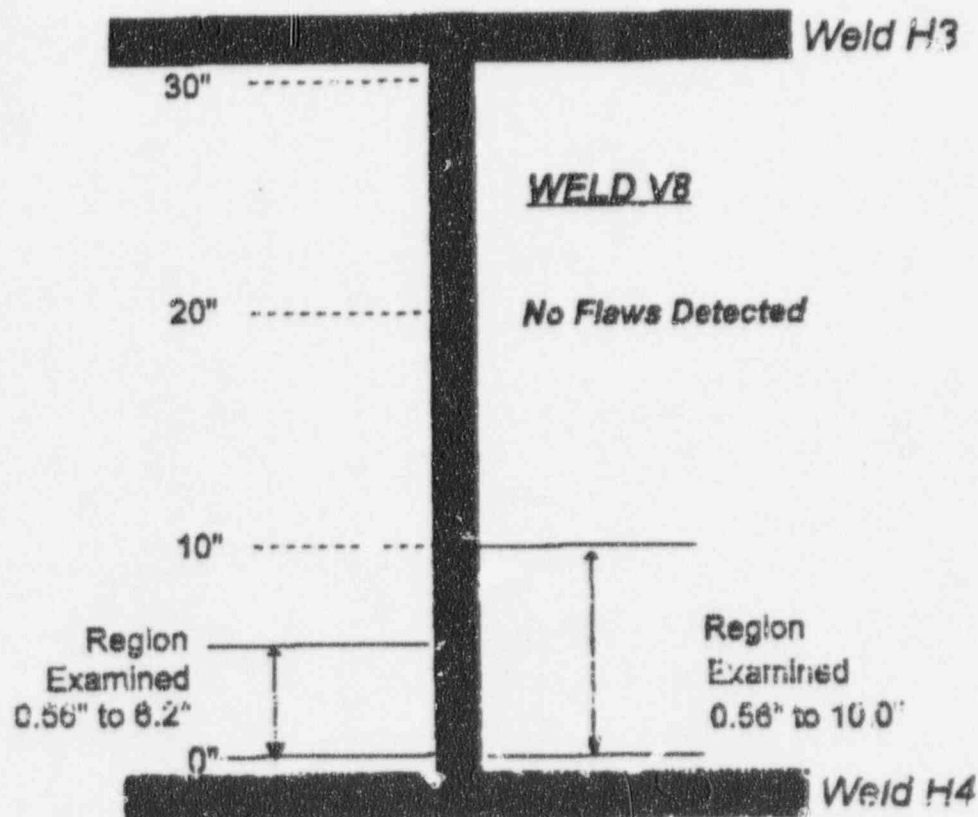


GE Nuclear Energy

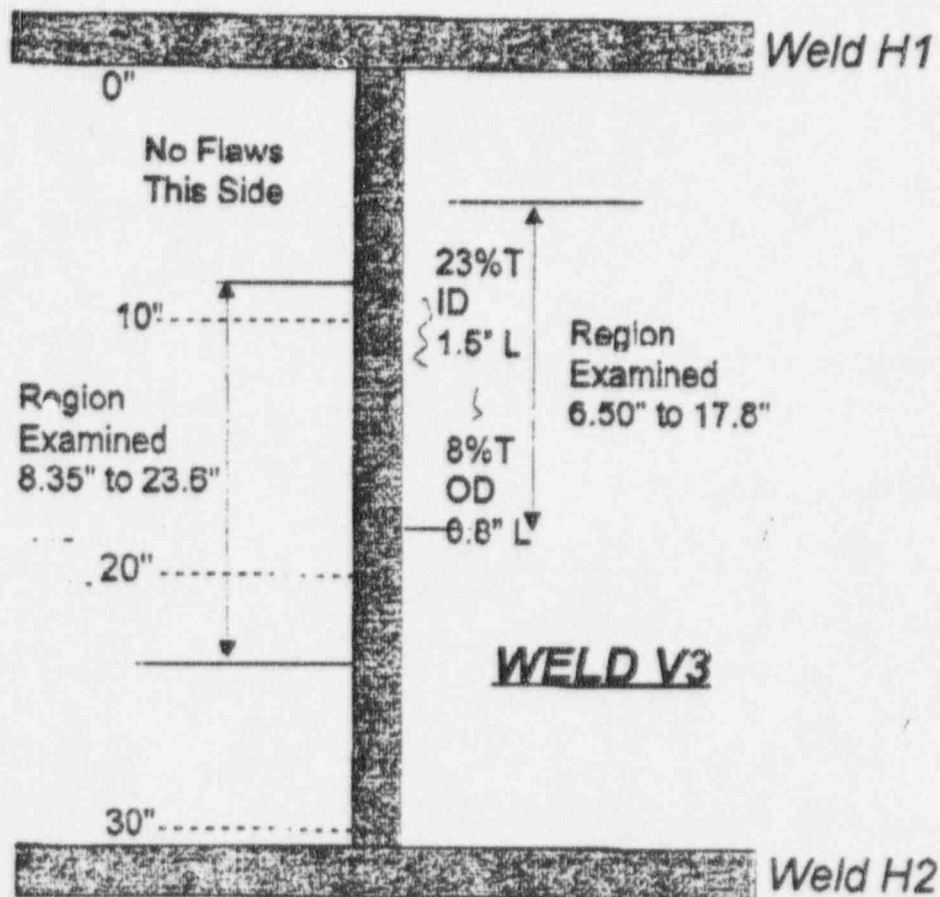
Niagara Mohawk Power Corporation

Nine Mile Point - Unit 1

Ultrasonic Examination Indication Map For Core Shroud Weld V8



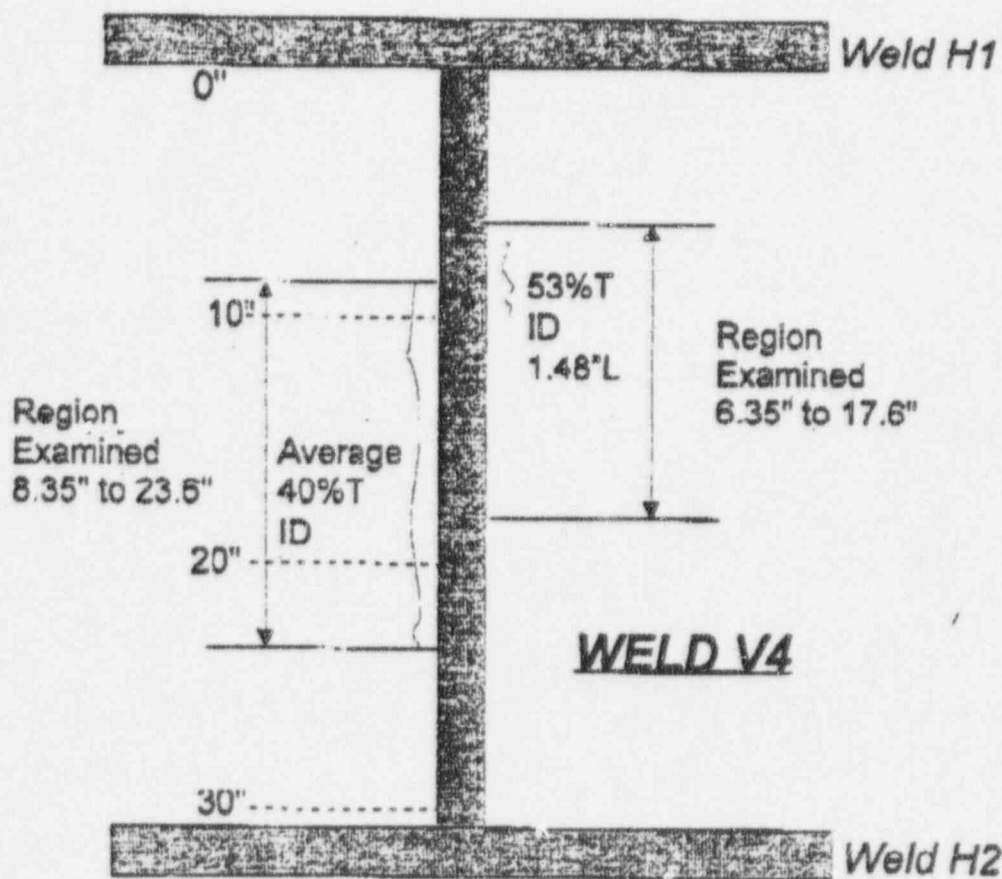
Core Shroud Examination Project - 1997

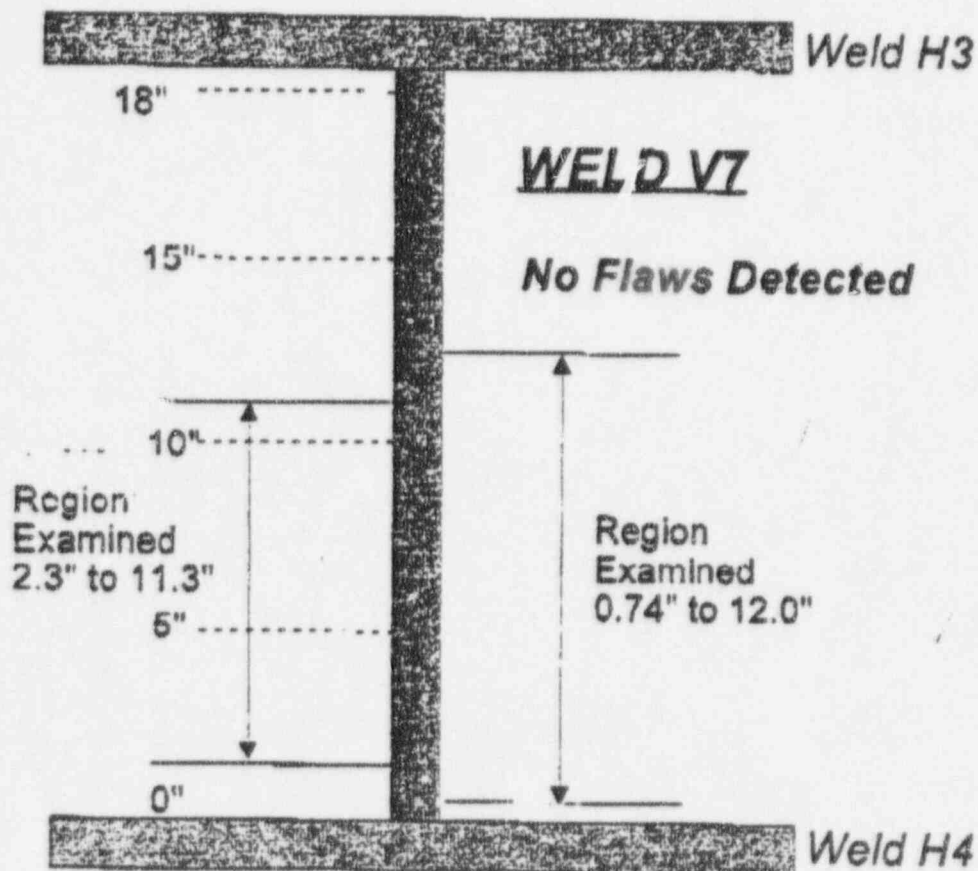
**GE Nuclear Energy**Niagara Mohawk Power Corporation
Nine Mile Point - Unit 1**Ultrasonic Examination Indication Map For Core Shroud Weld V3**

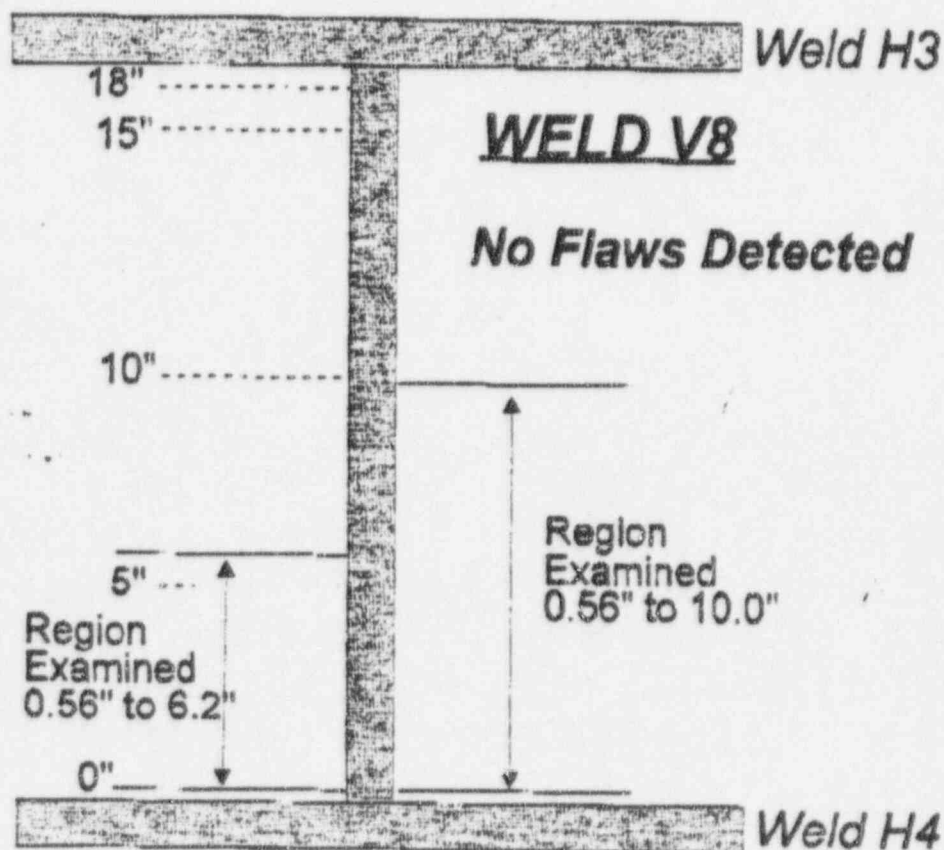
Post-It[®] brand fax transmittal memo 7671 # of pages = 4

To DALL HOOD	From JIMMY LEONARD
Co. NRC	Co. NMPC
Dept.	Phone 315 349 4039
Fax #	Fax #

ENCLOSURE 4

**GE Nuclear Energy**Niagara Mohawk Power Corporation
Nine Mile Point, Unit 1**Ultrasonic Examination Indication Map For Core Shroud Weld V4**

**GE Nuclear Energy**Niagara Mohawk Power Corporation
Nine Mile Point, Unit 1*Ultrasonic Examination Indication Map For Core Shroud Weld V7*

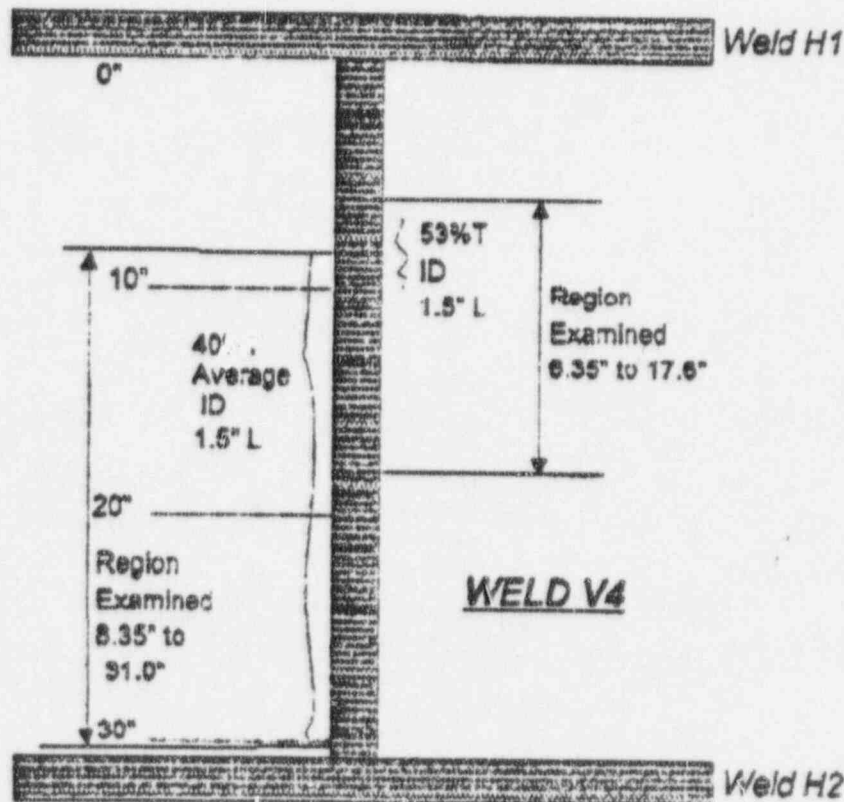
**GE Nuclear Energy**Niagara Mohawk Power Corporation
Nine Mile Point Unit 1*Ultrasonic Examination Indication Map For Core Shroud Weld V8*



GE Nuclear Energy

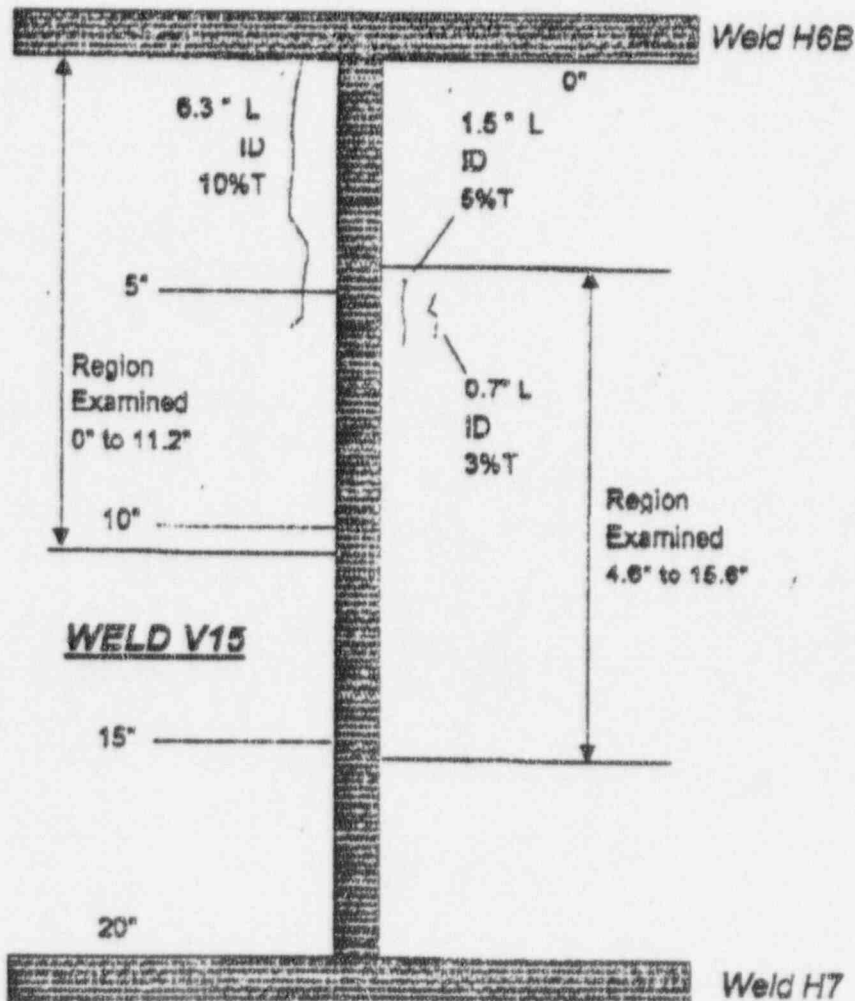
 Niagara Mohawk Power Corporation
 Nine Mile Point - Unit 1

Ultrasonic Examination Indication Map For Core Shroud Weld V4



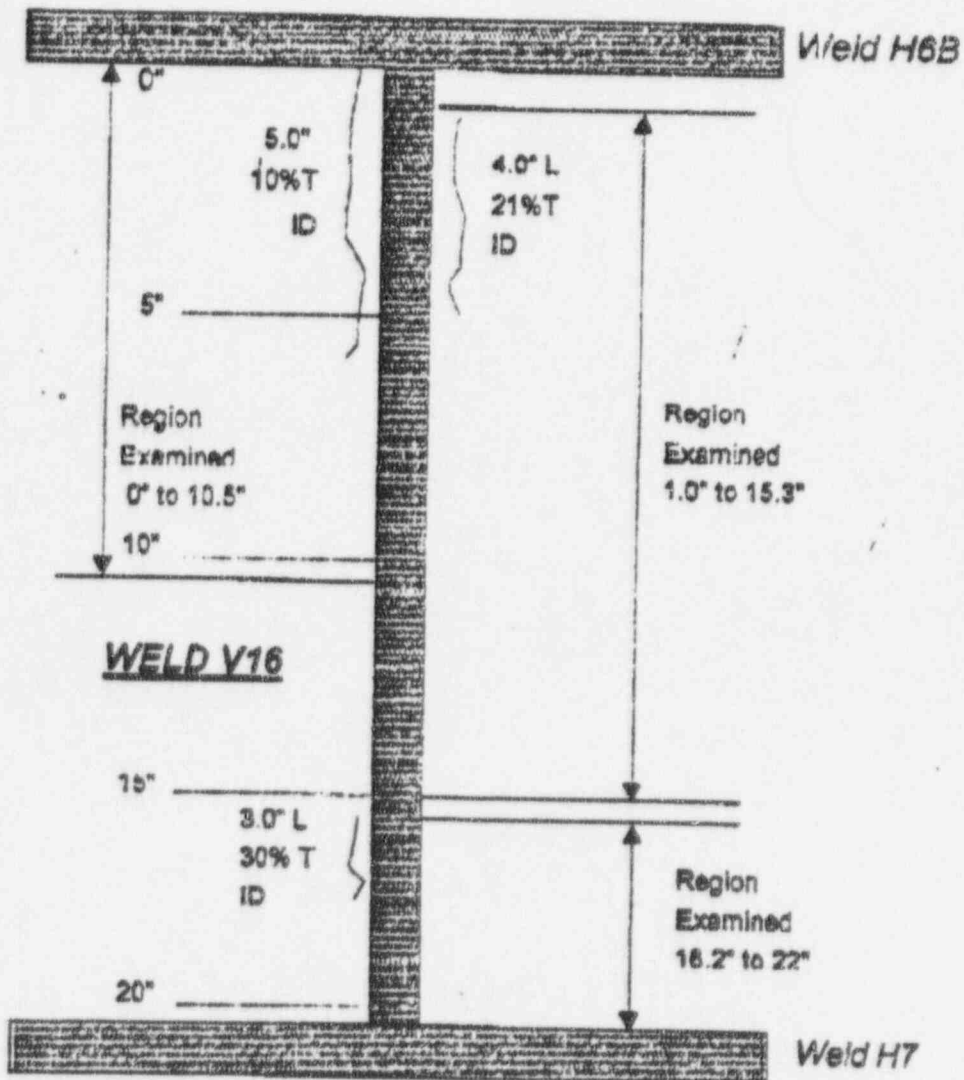
Post-It [®] brand fax transmittal memo 7671		# of pages = 6
To: DARR HADD	From: STEVE LEONARD	
On: NRC	Co: NMPC	
Dept:	Phone: 315 342 4033	
Ext: 301 415 2102	Fax:	

ENCLOSURE 5

**GE Nuclear Energy**Niagara Mohawk Power Corporation
Nine Mile Point - Unit 1**Ultrasonic Examination Indication Map For Core Shroud Weld V15**

**GE Nuclear Energy**Niagara Mohawk Power Corporation
Nine Mile Point - Unit 1

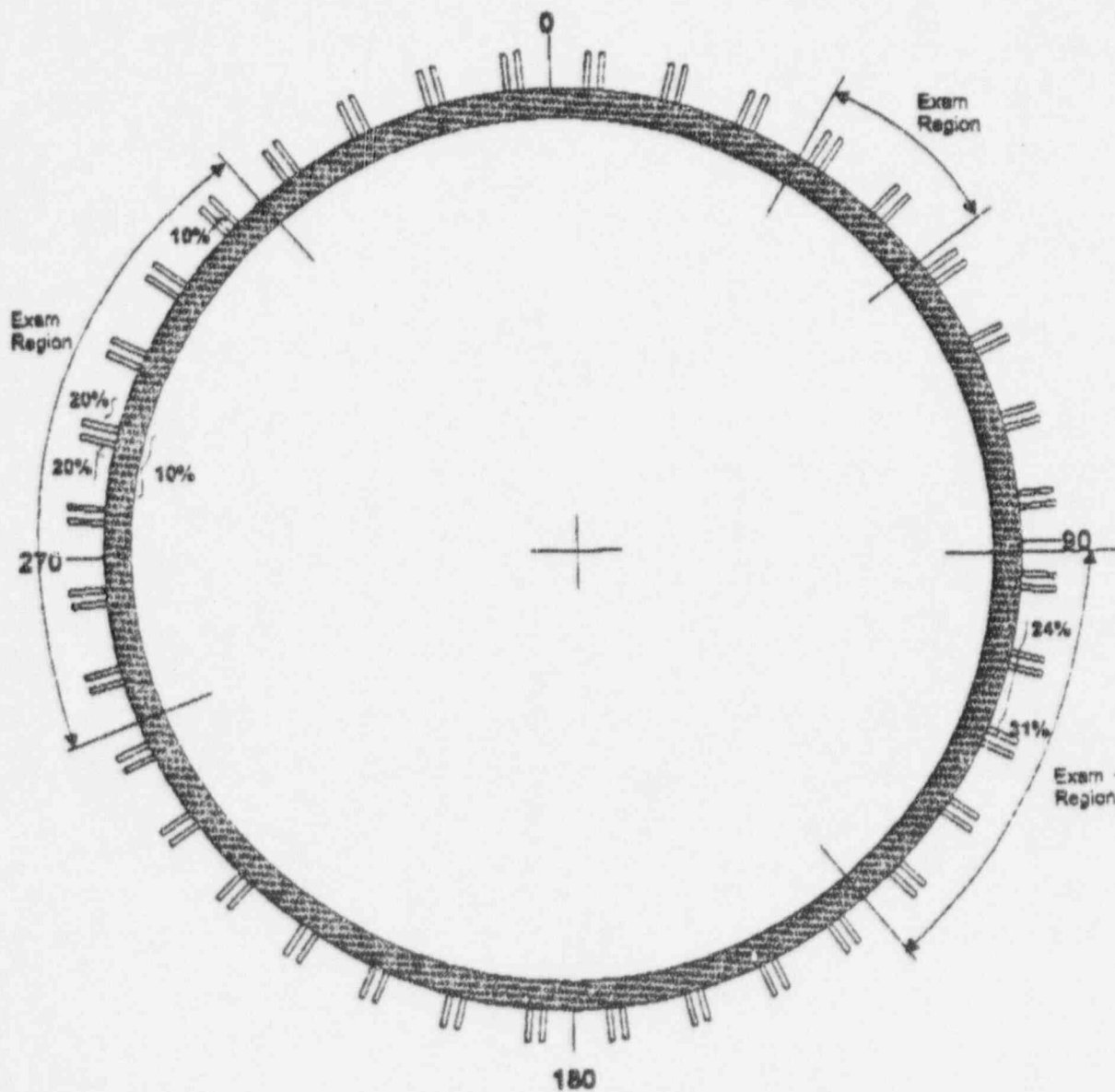
Ultrasonic Examination Indication Map For Core Shroud Weld V16



**GE Nuclear Energy****Niagara Mohawk Power Corporation
Nine Mile Point - Unit 1**

Ultrasonic Examination Indication Map For Core Shroud Weld H5

Note: Scanned From Both Top and Bottom Sides of Weld



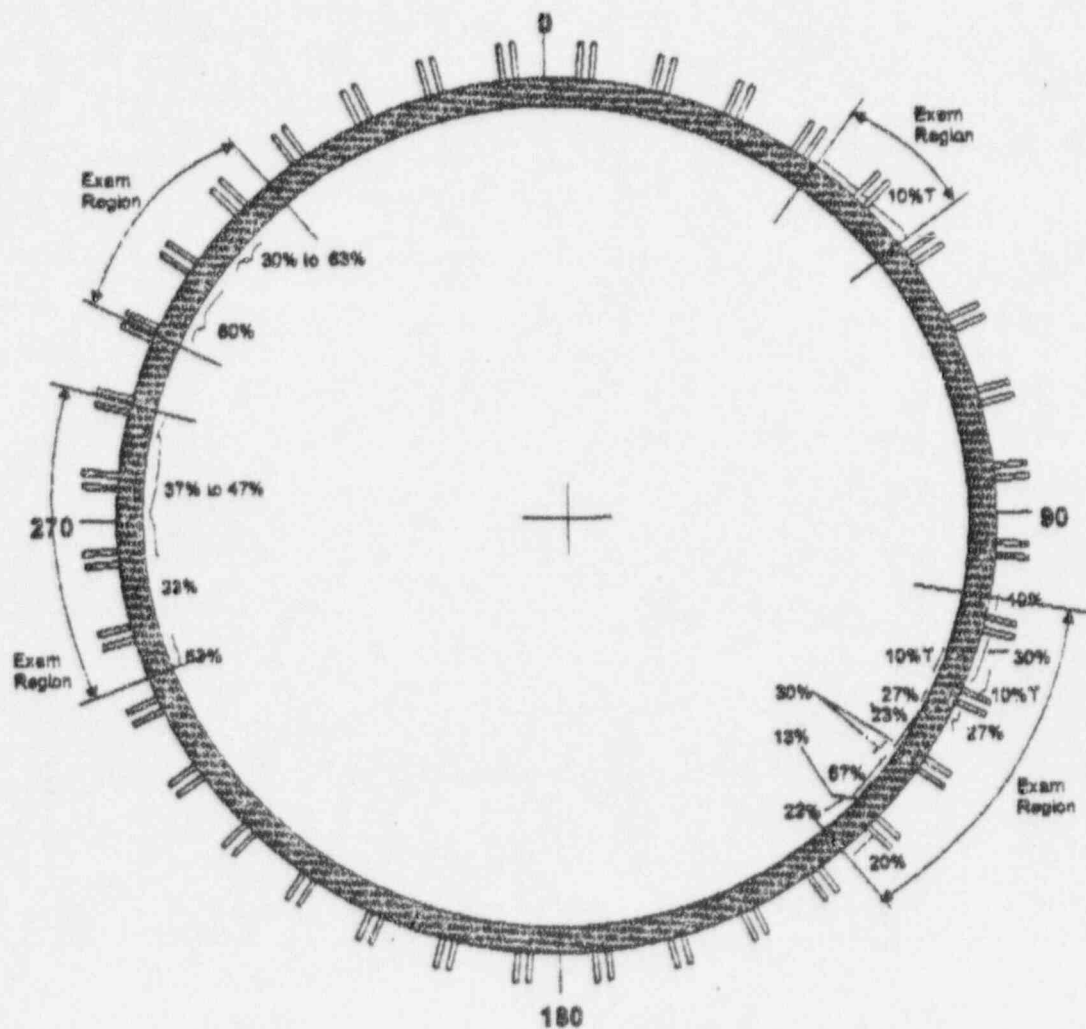
Weld H5 Flaw Map



GE Nuclear Energy

Niagara Mohawk Power Corporation
Nine Mile Point - Unit 1

Ultrasonic Examination Indication Map For Core Shroud Weld H4 Note: Scanned From Bottom Side of Weld Only



Weld H4 Flaw Map

