Examination Program Plan
For
New York Power Authority
Indian Point Unit No. 3
1st Outage; 1st Period; 2nd Interval
1987

This document details the proposed planned scope of examination by Westinghouse Nuclear Services Integration Division - Inspection Services for Indian Point Unit No. 3, including items and areas selected for examination, examination and documentation procedure and sketches containing identification of all areas to be examined.

Qualification of examiners, materials and equipment will be available on site prior to the start of examinations.

Efforts should be made to provide access to all planned examinations, however, due to circumstances such as radiation, environment, accessibility, etc., some variations may occur. In the event of such occurrences, substitute areas may be selected.

This program and the procedure incorporated herein require approval of New York Power Authority and the Authorized Inspector prior to the start of examinations.

Prepared by: Westinghouse Electric Corporation

W Approval: Larry E. Mahle (26 L.E.M.) 05/14/87
ISI Coordinator Date

New York Power Authority Approval: 5/28/87
Date

Title: NDE LEVEL III

Authorized Inspector Review: Robert L. Parker 5/28/87
Date

Agency: Hartford Steam Boiler Insp & Ins Co.

NEW YORK POWER AUTHORITY
INDIAN POINT UNIT NO. 3
1ST OUTAGE: 1ST PERIOD; 2ND INTERVAL
EXAMINATION PROGRAM PLAN
1987

All items listed below were examined, as indicated, in accordance with the requirements of the ASME Boiler and Pressure Vessel Code Section XI 1983 Edition up to and including Summer 1983 Addenda and Westinghouse NSID Position on NRC Regulatory Guide 1.150 Rev. 1 to the extent practical with the access available and the limitations of component geometry.

Program Item	IWB-2500-1 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			Vol.	Surf.	Vis	
		REACTOR VESSEL				
1.	B1.30	Vessel to Flange Weld 1 from Seal Surface - From 40° clockwise to 106.67°; 133.35° clockwise to 183.3° and 253.46° clockwise to 316.8°	154	--	--	1-1100
2.	B3.90	Loop 31 Outlet Nozzle to Vessel Weld 23	154	--	--	1-1100
3.	B3.90	Loop 32 Outlet Nozzle to Vessel Weld 22	154	--	--	1-1100
4.	B3.90	Loop 33 Outlet Nozzle to Vessel Weld 26	154	--	--	1-1100
5.	B3.90	Loop 34 Outlet Nozzle to Vessel Weld 27	154	--	--	1-1100
6.	B3.100	Loop 31 Outlet Nozzle Inside Radius Section - 23IR	154	--	--	1-1100
7.	B3.100	Loop 32 Outlet Nozzle Inside Radius Section - 22IR	154	--	--	1-1100
8.	B3.100	Loop 33 Outlet Nozzle Inside Radius Section - 26IR	154	--	--	1-1100
9.	B3.100	Loop 34 Outlet Nozzle Inside Radius Section - 27IR	154	--	--	1-1100
10.	B5.10	Loop 31 Outlet Nozzle to Safe End Butt Weld - 1DM	154	--	--	1-4100

Program Item	IWB-2500-1 Reference	Area and Extent of Examination	Examination Procedure			Sketch Reference
			Vol.	Surf.	Vis	
11.	B5.10	Loop 32 Outlet Nozzle to Safe End Butt Weld - 1DM	154	--	--	1-4200
12.	B5.10	Loop 33 Outlet Nozzle to Safe End Butt Weld - 1DM	154	--	--	1-4300
13.	B5.10	Loop 34 Outlet Nozzle to Safe End Butt Weld - 1DM	154	--	--	1-4400
14.	B6.40	Threads in Flange - around Stud Holes 21 thru 30; 35 thru 42; 53, 54 and 1 thru 7.	154	--	--	1-1100
		Circumferential Butt Welds				
15.	B9.11	Loop 31 Reactor Coolant Pipe - 2	154	--	--	1-4100
16.	B9.11	Loop 32 Reactor Coolant Pipe - 2	154	--	--	1-4200
17.	B9.11	Loop 33 Reactor Coolant Pipe - 2	154	--	--	1-4300
18.	B9.11	Loop 34 Reactor Coolant Pipe - 2	154	--	--	1-4400

Reference: Section XI 1983 Edition Page 72

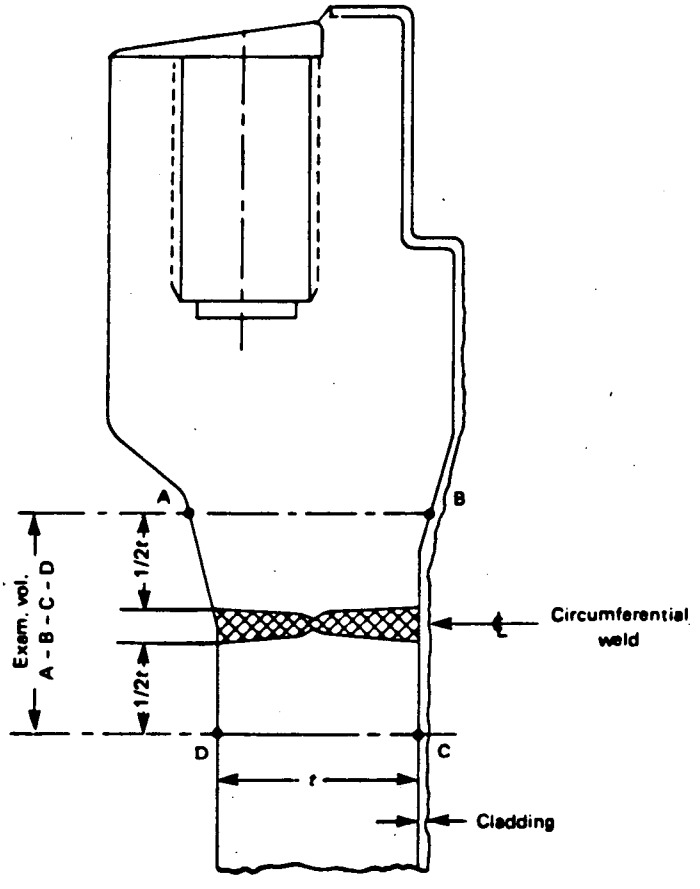
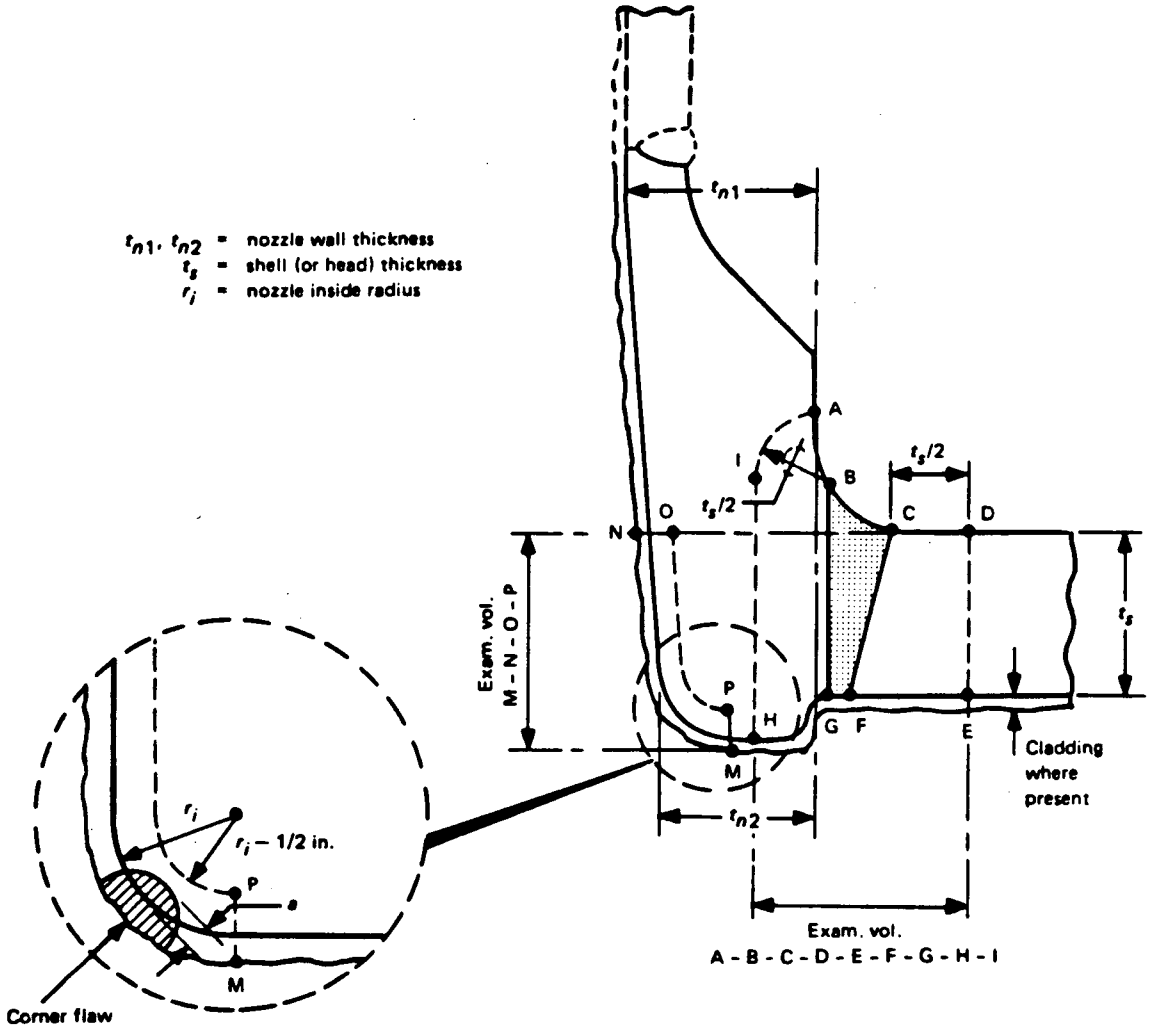


FIG. IWB-2500-4 SHELL-TO-FLANGE WELD JOINT

Reference: Section XI 1983 Edition Page 75

FORM 484

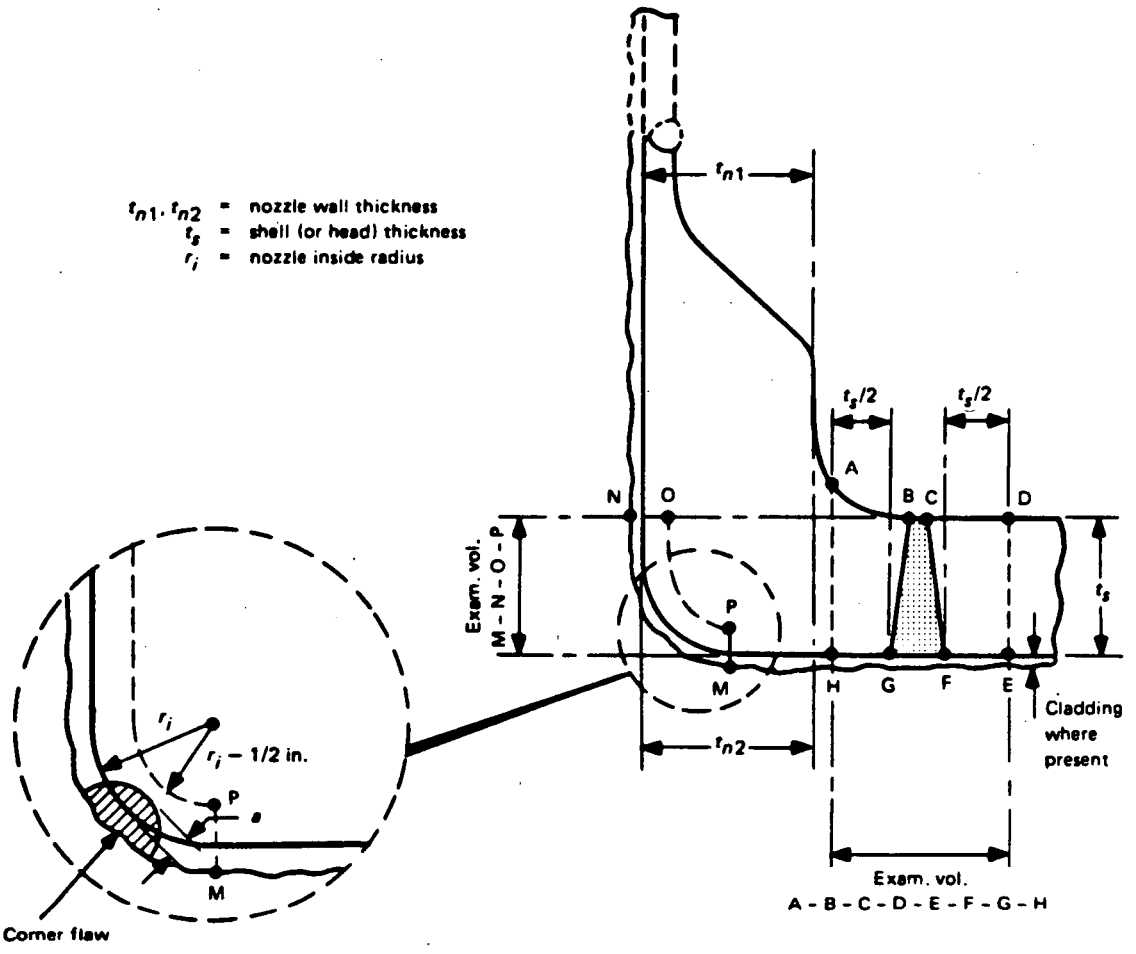


EXAMINATION REGION [Note (1)]	EXAMINATION VOLUME [Note (2)]
Shell (or head) adjoining region	C-D-E-F
Attachment weld region	B-C-F-G
Nozzle cylinder region	A-B-G-H-I
Nozzle inside corner region	M-N-O-P

NOTES:
(1) Examination regions are identified for the purpose of differentiating the acceptance standards in IWB-3512.
(2) Examination volumes may be determined either by direct measurements on the component or by measurements based on design drawings.

FIG. IWB-2500-7(a) NOZZLE IN SHELL OR HEAD
(Examination Zones in Barrel Type Nozzles Joined by Full Penetration Corner Welds)

Reference: Section XI 1983 Edition Page 76

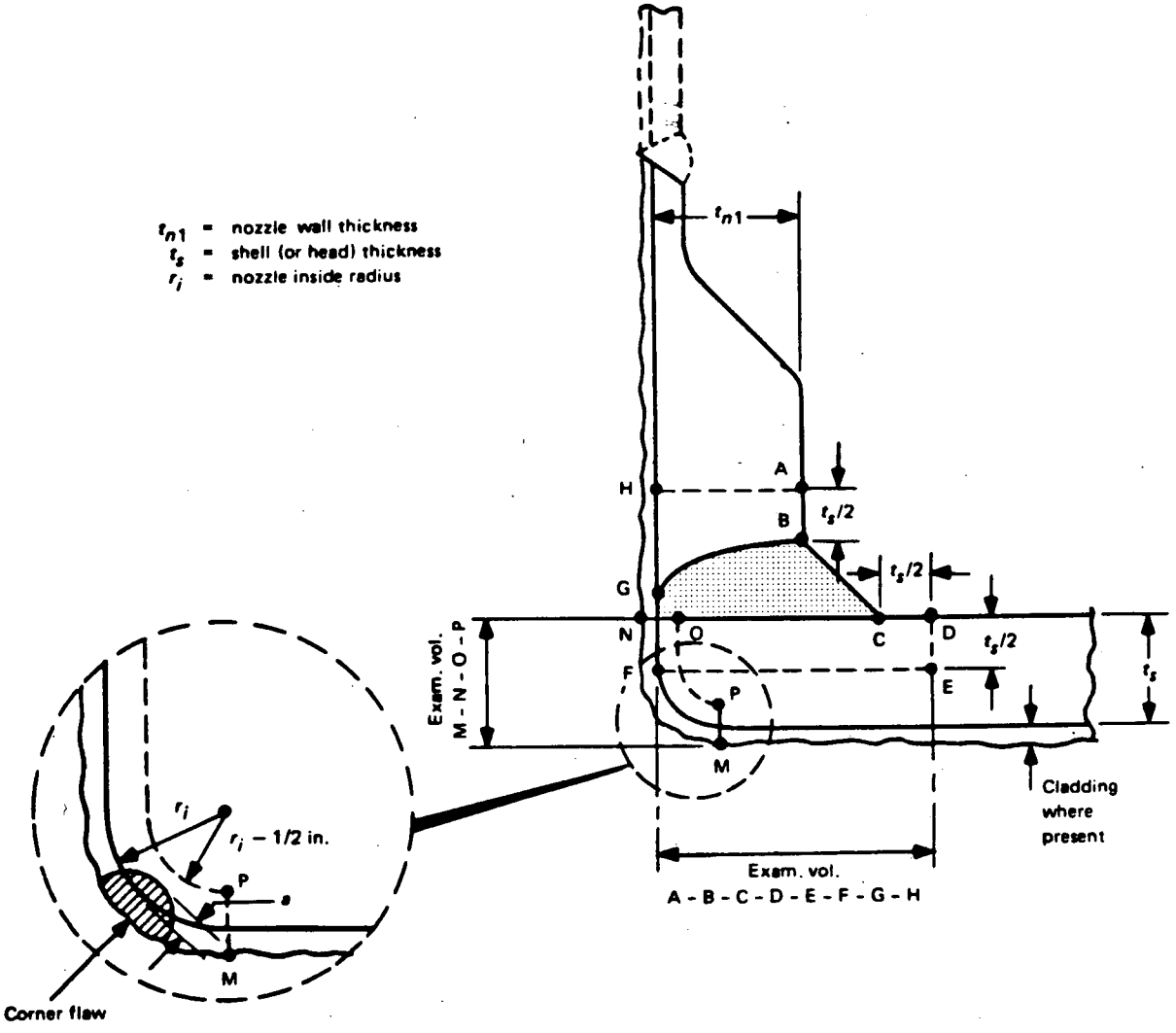


EXAMINATION REGION [Note (1)]	EXAMINATION VOLUME [Note (2)]
Shell (or head) adjoining region	C-D-E-F
Attachment weld region	B-C-F-G
Nozzle cylinder region	A-B-G-H
Nozzle inside corner region	M-N-O-P

NOTES:
(1) Examination regions are identified for the purpose of differentiating the acceptance standards in IWB-3512.
(2) Examination volumes may be determined either by direct measurements on the component or by measurements based on design drawings.

FIG. IWB-2500-7(b) NOZZLE IN SHELL OR HEAD
(Examination Zones in Flange Type Nozzles Joined by Full Penetration Butt Welds)

Reference: Section XI 1983 Edition Page 77

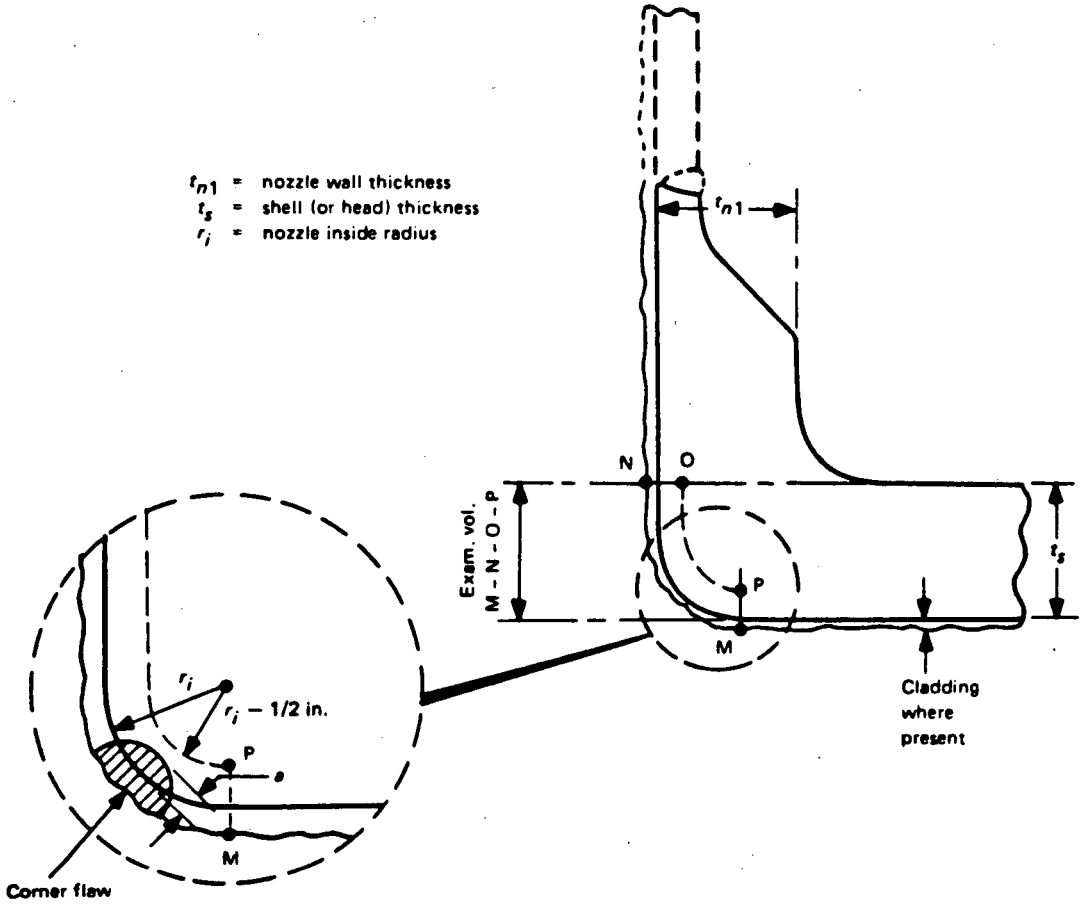


EXAMINATION REGION (Note (1))	EXAMINATION VOLUME (Note (2))
Shell (or head) adjoining region	C-D-E-F-G
Attachment weld region	B-C-G
Nozzle cylinder region	A-B-G-H
Nozzle inside corner region	M-N-O-P

NOTES:
(1) Examination regions are identified for the purpose of differentiating the acceptance standards in IWB-3512.
(2) Examination volumes may be determined either by direct measurements on the component or by measurements based on design drawings.

FIG. IWB-2500-7(c) NOZZLE IN SHELL OR HEAD
(Examination Zones in Set-On Type Nozzles Joined by Full Penetration Corner Welds)

Reference: Section XI 1983 Edition Page 78

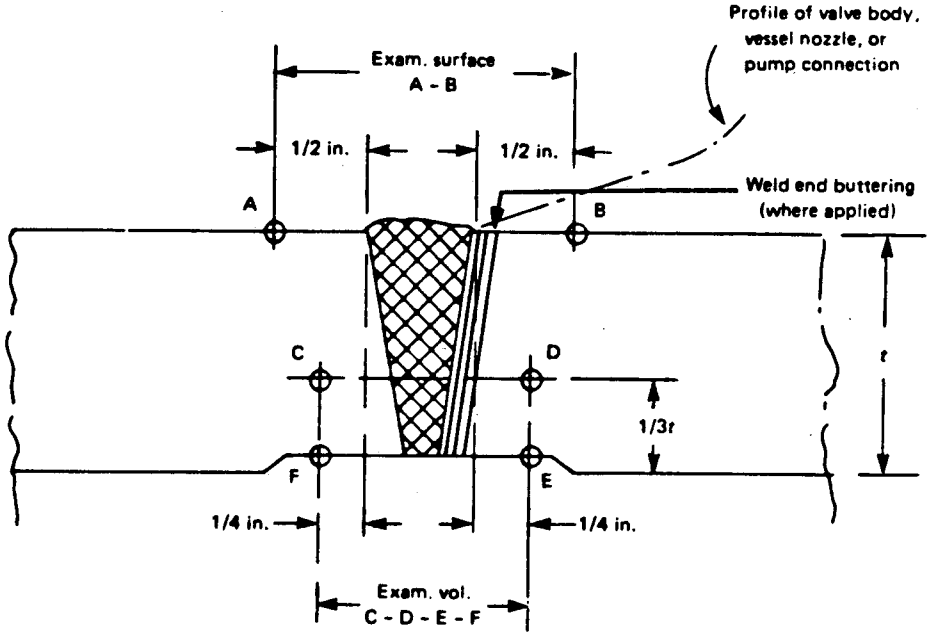


EXAMINATION REGION (Note (1))	EXAMINATION VOLUME (Note (2))
Nozzle inside corner region	M-N-O-P

NOTES:
(1) Examination regions are identified for the purpose of differentiating the acceptance standards in IWB-3512.
(2) Examination volumes may be determined either by direct measurements on the component or by measurements based on design drawings.

FIG. IWB-2500-7(d) NOZZLE IN SHELL OR HEAD
(Examination Zone in Nozzles Integrally Cast or Formed in Shell or Head)

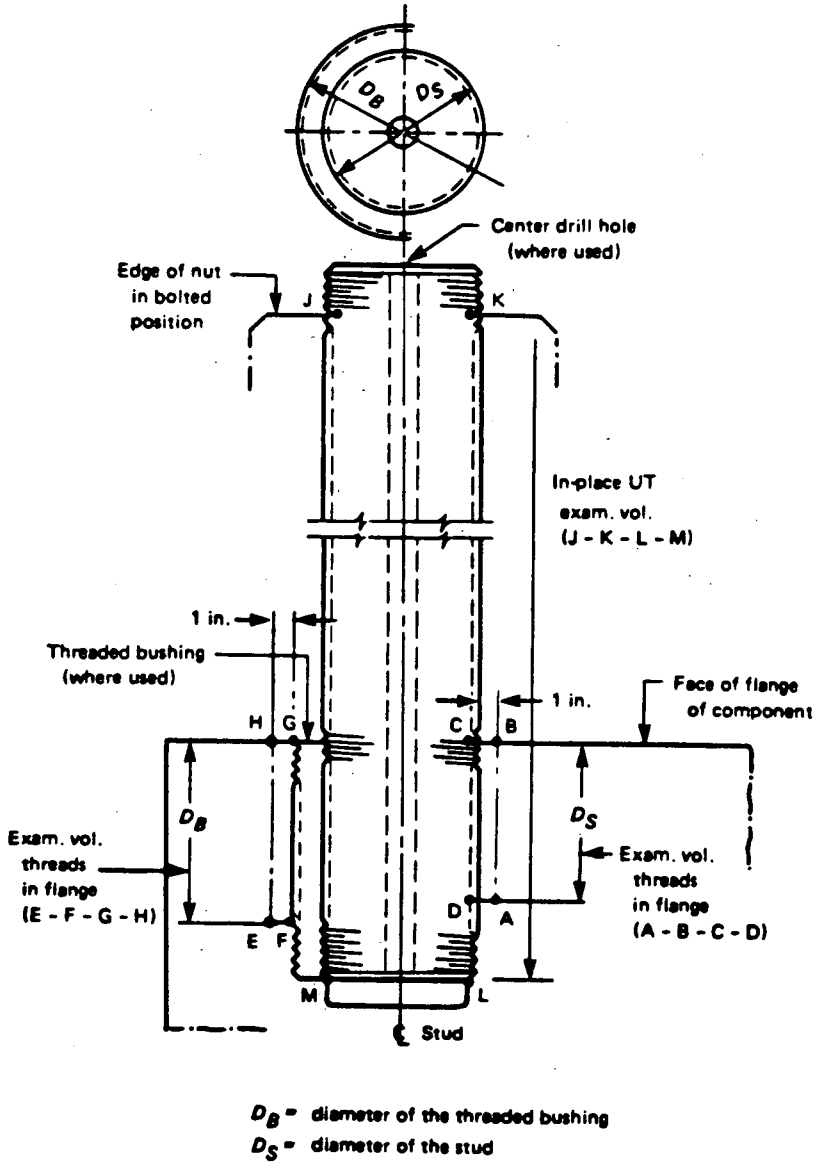
Reference: Section XI 1983 Edition Page 80



(c) NPS > 4 in.

FIG. IWB-2500-8 SIMILAR AND DISSIMILAR METAL WELDS IN COMPONENTS AND PIPING (CONT'D)

Reference: Section XI 1983 Edition Page 84



D_B = diameter of the threaded bushing
D_S = diameter of the stud

FIG. IWB-2500-12 CLOSURE STUD AND THREADS IN FLANGE STUD HOLE