

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

March 30, 1984

Director of Nuclear Reactor Regulation
Attention: Ms. E. Adensam, Chief
Licensing Branch No. 4
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Ms. Adensam:

In the Matter of the Application of) Docket Nos. 50-390
Tennessee Valley Authority) 50-391

Reference: Letter dated March 14, 1984 from T. M. Novak to H. G. Parris.

By the referenced letter, TVA was requested to submit for NRC review the radiographic examination reports and films relating to the final radiography of the wedge located in each of the eight main feedwater isolation valves (MFIV) at Watts Bar Nuclear Plant. Enclosed are copies of the radiographic examination reports consisting of the radiographic film submittal report, the radiographic inspection report, the radiographic data sheet, and the radiographic shooting sketch for each MFIV wedge at WBN. (Note, there is not a radiographic inspection report included for the MFIV with serial No. 66291 (heat No. G745); however, there is a sheet showing proof of inspection by Walworth.) The radiographic films will not be transmitted to the NRC since they are life-of-plant documents and are available at all times in the TVA document control records unit at the plant site.

These reports should permit the NRC to close out the issue regarding the lowest service metal temperature (LSMT) of +40°F for the WBN MFIVs within the context of GDC 51.

If you have any questions concerning this matter, please get in touch with D. P. Ormsby at FTS 858-2682.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

D S Kammer

D. S. Kammer
Nuclear Engineer

8404060104 840330
PDR ADDCK 05000390
A PDR

Sworn to and subscribed before me
this 30th day of March, 1984

Paulette N. White

Notary Public

My Commission Expires 9-5-84

Enclosure

cc: U.S. Nuclear Regulatory Commission (Enclosure)
Region II
Attn: Mr. James P. O'Reilly Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

1983-TVA 50TH ANNIVERSARY

An Equal Opportunity Employer

Boo1
1/1



VALVE CASTINGS COMPANY
811 marion rd. columbus, ohio 43227

RADIOGRAPHIC FILM SUBMITTAL REPORT

Customer DEAVO Item WG 88 valve
Customer Order No. _____ Size 16" Series 600
Valve Castings Company Order No. _____ Heat No. 5727
M.O. 37239-02A Specification 16RT

Film submitted to customer's representative _____
(Date) 10/12/77

By R. Delanko 412
Valve Castings Company Representative

Ed M. J. Janky 1/2 Nelsa 10/14/77

Approved ☒

Rejected ☐

Disposition: _____

(State reason below)

By Frank Thomas
Customer Representative

11/23/77
(Date)

Remarks: _____

R.R.# 02484



PAGE 1 OF 1

DATE 10/14/77

RADIOGRAPHIC INSPECTION REPORT

[illegible]



VALVE CASTINGS COMPANY
811 MARION RD. COLUMBUS, OHIO 43267

RADIOGRAPHIC DATA SHEET

ITEM		16" 600 BB Wedge					
SKETCH MADE BY		RD		SETUP MADE BY	RD / BK	DATE	7-19-77
ORIGINAL APPROVAL							
AND DATE							
VIEWS (INCLUDING MARKERS)		ENTIRE L-1 X-4	ENTIRE 1-R X-2	ENTIRE X-4 3	ENTIRE X-2 3		
SOURCE TYPE							
SOURCE SIZE		NIA	-	-	-		
SOURCE CURVES		NIA	-	-	-		
BETATRON (24 MEV)		NIA	-	-	-		
FILM FOCAL DISTANCE		5800	5800	5800	5800		
MATERIAL THICKNESS RADIOGRAPHED		9"	9"	9"	9"		
PENETRATOR SIZE (ON PIECE)		4"-7 1/2"	4"-7 1/2"	4"-7 1/2"	4"-7 1/2"		
ASTM		170 90 150 80	170 90 150 80	80 150 120	80 150 120		
PENETRATOR SIZE (ON BLOCKS)							
PENETRATOR BLOCK SIZE		NIA	-	-	-		
EXTRAMETER							
MATERIAL GROUP		NIA	-	-	-		
M SIZE AND QUANTITY OF CASSETTES		SS	-	-	-		
FILM TYPE		14X17	1	14X17	1	14X17	1
LEN # BACK		D7-04-07	D7-04-07	D7-04-07	D7-04-07		
SCREEN # FRONT		.040	-	-	-		
FILTERS		.010	-	-	-		
		NIA	-	-	-		
2-2T (4T < .75) SENSITIVITY LEVEL				HEAT NO. 6727		MATERIAL	
				MONO 37239-02A		WCB	
				PATTERN NO.			
GENERAL NOTES							
PRESS NO.				SHEET 1 OF 1		REV.	
				PAGE 1 OF 2			

VALVE
D 66293
SERIAL NO.



VALVE CASTINGS COMPANY
611 marion rd. columbus, ohio 43207

Radiographic Shooting Sketch

Item:

16" 600 BB wedge

Heat No.

Mo No:

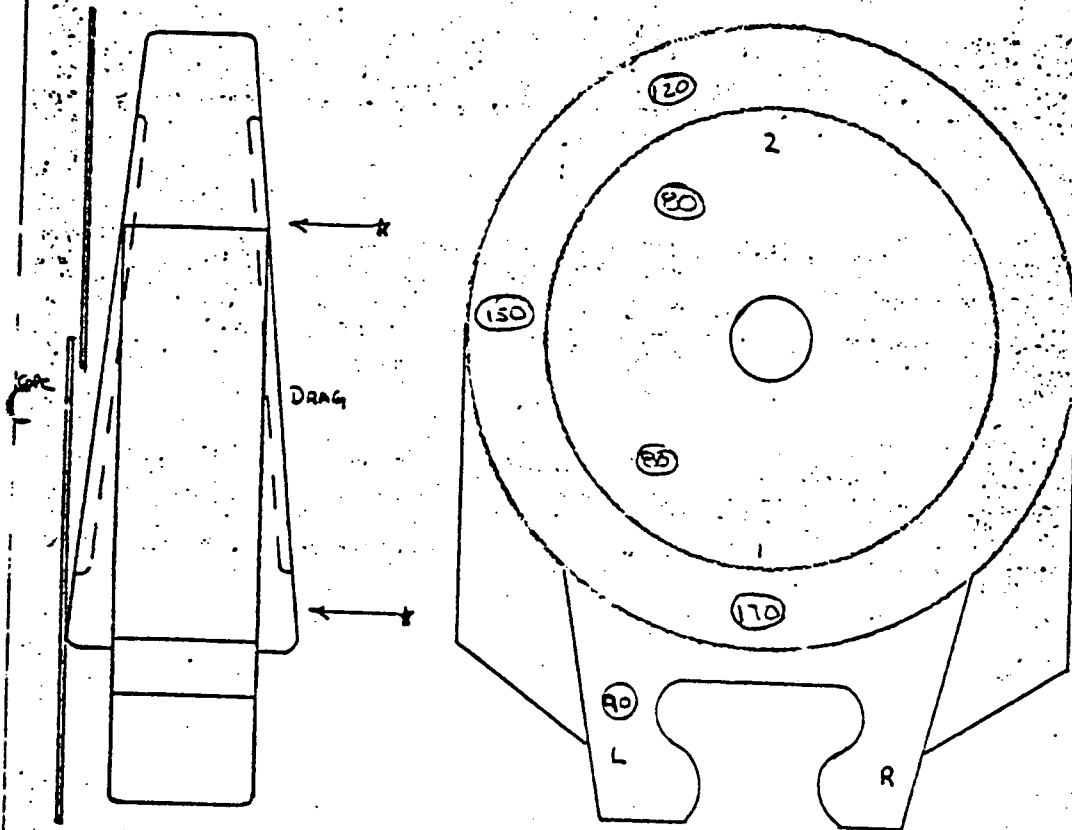
RSS No.

Page

2

of

2



DRAG

266293

Source →

VCPC-112

film

2500000000



VALVE CASTINGS COMPANY
611 Marion Rd. Columbus, Ohio 43207

RADIOGRAPHIC FILM SUBMITTAL REPORT

Customer DRAVO Item BB Wedge
Customer Order No. E-2897-W-1 Size 1 1/2 Series 600
Valve Castings Company Order No. PA-37239 Heat No. 6492
M.O. 37239-02A Specification 1 G21

Film submitted to customer's representative 7/19/77
(Date)

By R. Delapack
Valve Castings Company Representative
Ed M. Guttentag 42 Waco 8/30/77

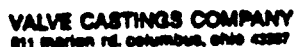
Disposition: Approved

Rejected (State reason below)

By Ed M. Guttentag
Customer Representative
(Date)

Remarks: _____

R.R.# 62252



PAGE 1 OF 1

DATE 7/19/77

RADIOGRAPHIC INSPECTION REPORT

[illegible]



VALVE CASTINGS COMPANY
811 Marion Rd. Columbus, Ohio 43207

RADIOGRAPHIC DATA SHEET

ITEM						
16" 600 BB Wedge						
SKETCH MADE BY RD	SETUP MADE BY RD / EK					
DATE 6-18-77						
ORIGINAL APPROVAL AND DATE						
VIEWS (INCLUDING MARKERS)	ENTIRE L-1 X-4	ENTIRE I-R X-2	ENTIRE X-4 3	ENTIRE X-2 3		
SOURCE TYPE	NIA	-	-	-		
SOURCE SIZE	NIA	-	-	-		
SOURCE CURVES	NIA	-	-	-		
BETATRON (24 MEV)	580R	580R	580R	580R		
FILM FOCAL DISTANCE	9'	9'	9'	9'		
MATERIAL THICKNESS RADIOGRAPHED	4" - 7 1/2"	4" - 7 1/2"	4" - 7 1/2"	4" - 7 1/2"		
PENETRATOR SIZE (ON PIECE)	170 90	170 90	80 150	80 150		
PENETRATOR SIZE (ON BLOCKS)	ASTM 150 80	150 80	120	120		
PENETRATOR BLOCK SIZE	NIA	-	-	-		
PENETRATOR MATERIAL GROUP	NIA	-	-	-		
4 M SIZE AND QUANTITY OF CASSETTES	GROUP 1 55	-	-	-		
4 M TYPE	14X17 1	14X17 1	14X17 1	14X17 1		
GREEN (B) BACK	D7-D4-07	D7-D4-07	D7-D4-07	D7-D4-07		
GREEN (B) FRONT	.040	-	-	-		
ALTIM	.010	-	-	-		
	NIA	-	-	-		
-2T (4T < .75) SENSITIVITY LEVEL		HEAT NO. G492		MATERIAL		
		MONO NO 37239-02A		L63		
		PATTERN NO				
GENERAL NOTES						
VALVE D66292						
RSSS NO		SHEET 1 of 1		REV		
		PAGE 1 of 2				



VALVE CASTINGS COMPANY
511 Marion Rd. Columbus, Ohio 43207

Radiographic Shooting Sketch

Item:

16" 600 BB wedge

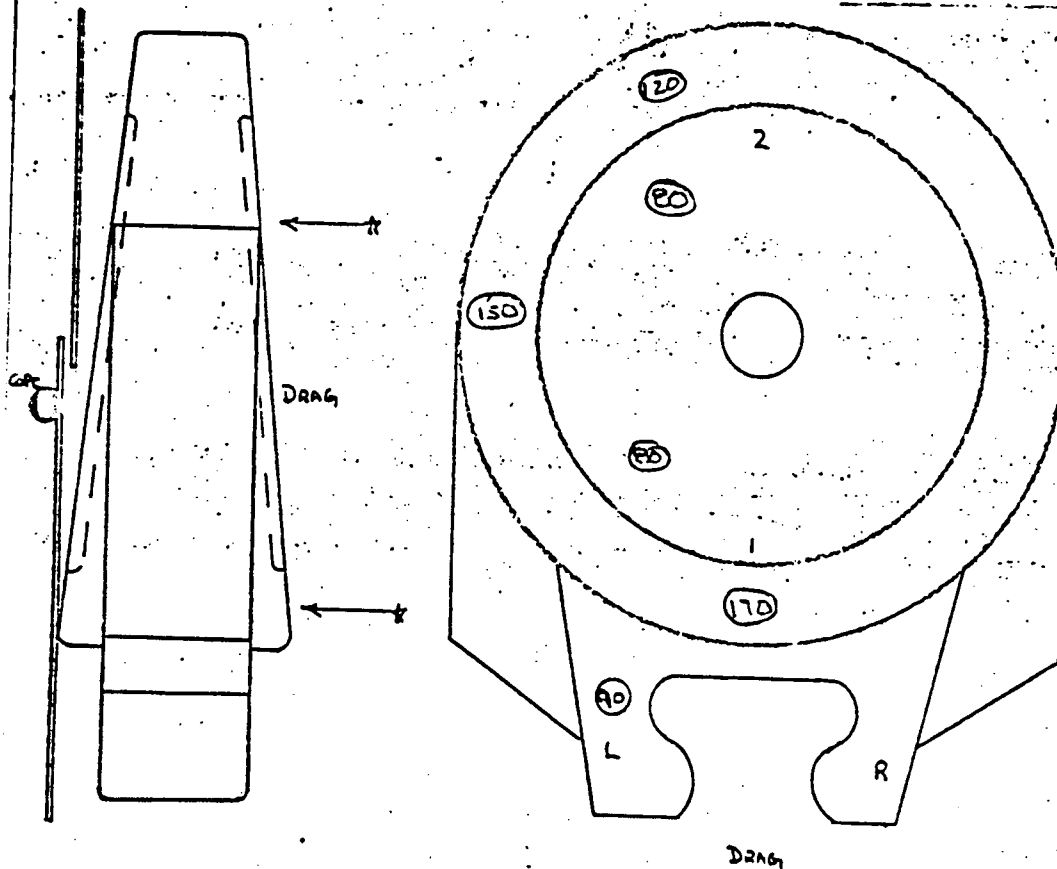
Heat No. G 496

Mo No: 37239-021

Bus No.

Page 2 of 2

D66292



Source: Film: Radiometer: 0



VALVE CASTINGS COMPANY
511 MARION RD. COLUMBUS, OHIO 43207

RADIOGRAPHIC FILM SUBMITTAL REPORT

Customer Danvo Item RR WCOB
Customer Order No. _____ Size 16" Series 600 #
Valve Castings Company Order No. _____ Heat No. G745
M.O. AJ37239 - 02A Specification 1GR

Film submitted to customer's representative _____
(Date) 10/12/77

By R. D. L. 4R
Valve Castings Company Representative
M. E. L. 4R to W. L. 4R 10/14/77

Disposition: Approved Rejected
(State reason below)
By Frank M. L. 4R
Customer Representative
11/25/77
(Date)

Remarks: _____

R.R. # 02465



VALVE CASTINGS COMPANY
611 Marion Rd. Columbus, Ohio 43227

RADIOGRAPHIC DATA SHEET

ITEM		16" 600 BB Wedge			
SKETCH MADE BY		ED/EX		DATE	
ORIGINAL APPROVAL AND DATE		2-18-77			
VIEWS (INCLUDING MARKERS)		ENTIRE L-1 X-4	ENTIRE I-R X-2	ENTIRE X-4 3	ENTIRE X-2 3
SOURCE TYPE		N/A	-	-	-
SOURCE SIZE		N/A	-	-	-
SOURCE CURVES		N/A	-	-	-
BETATRON (24 MEV)		N/A	-	-	-
FILM FOCAL DISTANCE		580 R	580 R	580 R	580 R
MATERIAL THICKNESS RADIOGRAPHED		9'	9'	9'	9'
PENETRATOR SIZE (ON PIECE)		4"-7 1/2"	4"-7 1/2"	4"-7 1/2"	4"-7 1/2"
ASTM		170 90	170 90	80 150	80 150
PENETRATOR SIZE (ON BLOCKS)		150 80	150 80	120	120
PENETRATOR BLOCK SIZE		N/A	-	-	-
PENETRATOR MATERIAL GROUP		N/A	-	-	-
FILM SIZE AND QUANTITY OF CASSETTES		14x17	14x17	14x17	14x17
FILM TYPE		D7-04-07	D7-04-07	D7-04-07	D7-04-07
SCREEN (R BACK)		.040	-	-	-
SCREEN (R FRONT)		.010	-	-	-
FILTERS		N/A	-	-	-
2-2T (4T < .75) SENSITIVITY LEVEL		HEAT NO. 6745			
GENERAL NOTES		MATERIAL MONO. PN37237-02A			
		PATTERN NO. W43			
		D6629			
CPC R-101 8/78		RSS NO.		SHEET 1 OF 1	
				PAGE 1 OF 2	



VALVE CASTINGS COMPANY
611 Marion Rd. Columbus, Ohio 43207

Radiographic Shooting Sketch

Item:

16" 600 BB wedge

Heat No.

Mo No:

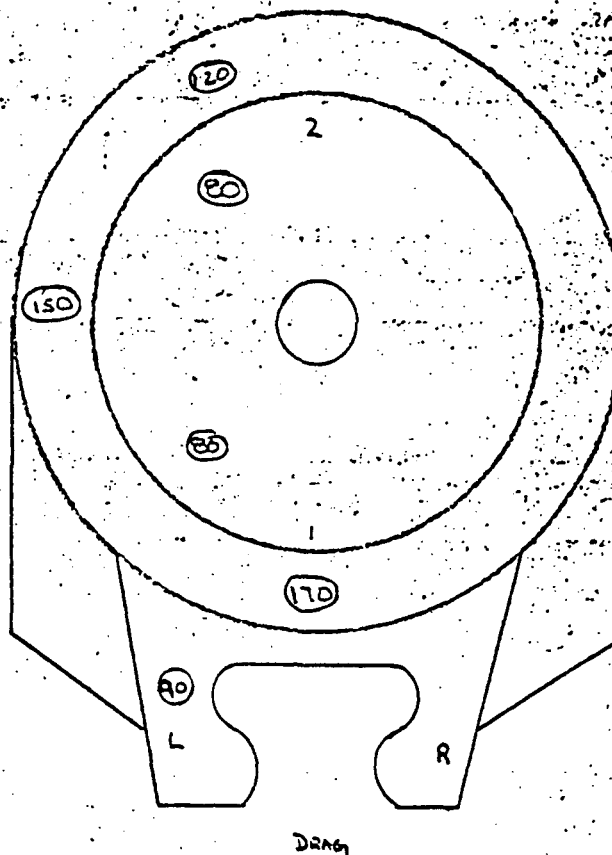
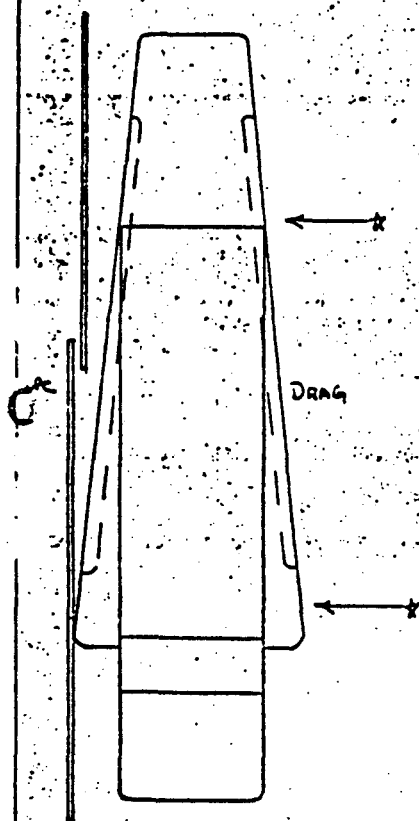
RSS No.

Page

2

of

2



D 6629

Source: *
VFCA-102

Film

PERMANENT 0

ITEM 16" NO BB WEDGE

RADIOGRAPHIC REVIEW

DATE 12-10-77

CUSTOMER BRAY

MO. NO. P37287-02A

PART NO. USDPS 284 HT 6715

PATTERN NO. N/A

RADIOGRAPHIC REPORT NO. 02481

PIECE NO. N/A

D6629

THIS RADIOGRAPHIC FILM WAS REVIEWED + FOUND
TO BE ACCEPTABLE BY THE WALWORTH-GREENSBURG
RESIDENT Q.A. REPRESENTATIVE.

HT 6715
WG-RQAR



VALVE CASTINGS COMPANY
611 MARION RD. COLUMBUS, OHIO 43207

RADIOGRAPHIC FILM SUBMITTAL REPORT

Customer DRAVO Item BB. Wedge
Customer Order No. E-2297-001-1 Size 16 Series 600
Valve Castings Company Order No. PN-27239 Heat No. G-578
M.O. 37239-02A Specification 1-GRT

Film submitted to customer's representative 7/19/77
(Date)

By R. Delaney
Valve Castings Company Representative
M. J. Galt 8/30/77

Disposition: Approved

Rejected (State reason below)

By [Signature]
Customer Representative
8-9-77
(Date)

Remarks: _____

RR# 02253

D 56290





VALVE CASTINGS COMPANY
611 Marion Rd. Columbus, Ohio 43207

M.O. AV 37239-03A

PAGE 1 OF 1

DATE 7/15/77

RADIOGRAPHIC INSPECTION REPORT

CUSTOMER: <u>DRAVO</u>		CONTRACT: <u>E-2897-WN-1</u>		ITEM NO. <u>02A</u>							
SPECIFICATION: <u>1 GRT</u>		CUSTOMER DWG.		PC. NO.							
PART: <u>16" 600 33 Wedge NS086235</u>		HEAT NO. <u>6578</u>									
MATERIAL: <u>LCB</u>		BETATRON 24 MEV CYCLOPS <u>C</u>		IRD 192 <u>CO 60</u>							
ASTM <u>A-182-32</u>		250-692-13		0900-003-9000							
ACCEPTANCE STANDARDS		250-1500-1		OTHER: <u>u2</u>							
PATTERN NO. <u>—</u>		FILM TYPE: <u>D4 D7</u>		SENSITIVITY: <u>2-2T</u>							
FILM NO OR VIEW	ACCEPT	REJECT	GAS AND BLOWHOLES	SAND INCLUSIONS	INTERNAL SHRINKAGE	HOT TEARS	CRACKS	WELD		REMARKS	FILM READ BY (INITIAL)
								SLAG	POROSITY		
<u>ENTER</u>											<u>RD</u>
<u>X-1</u>	<u>✓</u>			<u>✓</u>						<u>F-S-LI-INCL</u>	
<u>X-2</u>	<u>✓</u>			<u>✓</u>						<u>S-LI-INCL</u>	
<u>X-3</u>	<u>✓</u>			<u>✓</u>						<u>F-S-LI-INCL</u>	
<u>X-4</u>	<u>✓</u>			<u>✓</u>						<u>F-S-LI-INCL</u>	
<u>X-5</u>	<u>✓</u>			<u>✓</u>						<u>F-S-LI-INCL</u>	
<u>X-6</u>	<u>✓</u>			<u>✓</u>						<u>F-S-LI-INCL</u>	
<u>X-7</u>											
<u>X-8</u>											
<u>X-9</u>											
<u>X-10</u>											
<u>X-11</u>											
<u>X-12</u>											
<u>X-13</u>											
<u>X-14</u>											
<u>X-15</u>											
<u>X-16</u>											
<u>X-17</u>											
<u>X-18</u>											
<u>X-19</u>											
<u>X-20</u>											
<u>X-21</u>											
<u>X-22</u>											
<u>X-23</u>											
<u>X-24</u>											
<u>X-25</u>											
<u>X-26</u>											
<u>X-27</u>											
<u>X-28</u>											
<u>X-29</u>											
<u>X-30</u>											
<u>X-31</u>											
<u>X-32</u>											
<u>X-33</u>											
<u>X-34</u>											
<u>X-35</u>											
<u>X-36</u>											
<u>X-37</u>											
<u>X-38</u>											
<u>X-39</u>											
<u>X-40</u>											
<u>X-41</u>											
<u>X-42</u>											
<u>X-43</u>											
<u>X-44</u>											
<u>X-45</u>											
<u>X-46</u>											
<u>X-47</u>											
<u>X-48</u>											
<u>X-49</u>											
<u>X-50</u>											
<u>X-51</u>											
<u>X-52</u>											
<u>X-53</u>											
<u>X-54</u>											
<u>X-55</u>											
<u>X-56</u>											
<u>X-57</u>											
<u>X-58</u>											
<u>X-59</u>											
<u>X-60</u>											
<u>X-61</u>											
<u>X-62</u>											
<u>X-63</u>											
<u>X-64</u>											
<u>X-65</u>											
<u>X-66</u>											
<u>X-67</u>											
<u>X-68</u>											
<u>X-69</u>											
<u>X-70</u>											
<u>X-71</u>											
<u>X-72</u>											
<u>X-73</u>											
<u>X-74</u>											
<u>X-75</u>											
<u>X-76</u>											
<u>X-77</u>											
<u>X-78</u>											
<u>X-79</u>											
<u>X-80</u>											
<u>X-81</u>											
<u>X-82</u>											
<u>X-83</u>											
<u>X-84</u>											
<u>X-85</u>											
<u>X-86</u>											
<u>X-87</u>											
<u>X-88</u>											
<u>X-89</u>											
<u>X-90</u>											
<u>X-91</u>											
<u>X-92</u>											
<u>X-93</u>											
<u>X-94</u>											
<u>X-95</u>											
<u>X-96</u>											
<u>X-97</u>											
<u>X-98</u>											
<u>X-99</u>											
<u>X-100</u>											

VCC

FILM REVIEWER Richard Delinger 4/5

CUST INSPECTOR Frank [Signature] DATE 8/30/77

AUTH. INSPECTOR Richard Delinger 4/5 SUPERVISOR RADIOGRAPHY

VPCC R-108 9/78



VALVE CASTINGS COMPANY
811 marion rd. columbus, ohio 43207

RADIOGRAPHIC DATA SHEET

ITEM		16" 600 BB Wedge			
TECH MADE BY		RD		DATE	
ORIGINAL APPROVAL AND DATE		RD / BK		7-19-77	
VIEWS (INCLUDING MARKERS)		ENTIRE L-1 X-4	ENTIRE I-R X-2	ENTIRE X-4 3	ENTIRE X-2 3
SOURCE TYPE		NIA	-	-	-
SOURCE SIZE		NIA	-	-	-
SOURCE CURVES		NIA	-	-	-
BETATRON (24 MEV)		NIA	-	-	-
FILM FOCAL DISTANCE		5002	5002	5002	5002
MATERIAL THICKNESS RADIOGRAPHED		9'	9'	9'	9'
PENETRATOR SIZE (ON PIECE)		4"-7 1/2"	4"-7 1/2"	4"-7 1/2"	4"-7 1/2"
PENETRATOR SIZE (ON BLOCKS)		170 90 150 80	170 90 150 80	80 150 120	80 150 120
ASTM		150 80	150 80	120	120
PENETRATOR BLOCK SIZE		NIA	-	-	-
PENETRATOR MATERIAL GROUP		NIA	-	-	-
FILM SIZE AND QUANTITY OF CASSETTES		14x17 1	14x17 1	14x17 1	14x17 1
FILM TYPE		D7-04-07	D7-04-07	D7-04-07	D7-04-07
SCREEN (B) BACK		040	-	-	-
SCREEN (B) FRONT		010	-	-	-
FILTERS		NIA	-	-	-
2-2T (4T < .75) SENSITIVITY LEVEL		HEAT NO. 2375		MATERIAL	
		MONO 37239-02A		VCB	
		PATTERN NO			
GENERAL NOTES					
D 55230					
RSSS NO		SHEET 1 OF 1		REV	
CPC R-101 8/78		PAGE 1 OF 2			



VALVE CASTINGS COMPANY
811 marion rd. columbus, ohio 43207

Radiographic Shooting Sketch

Item:

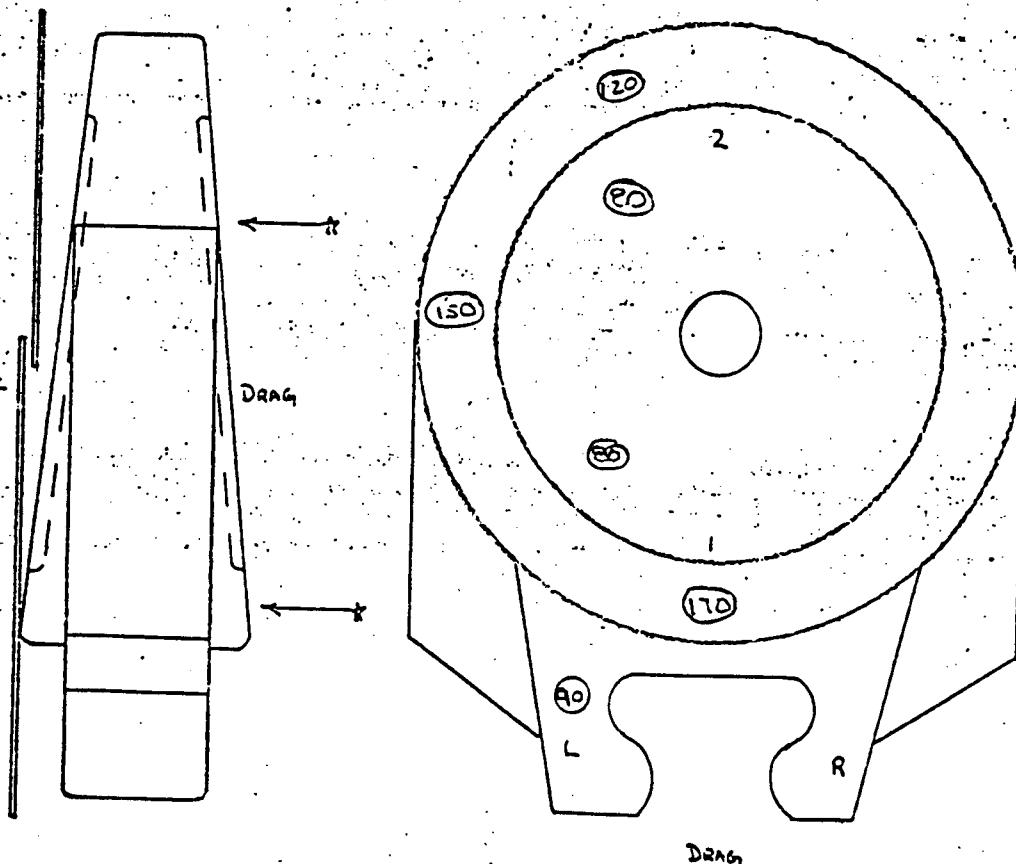
16" 600 BB wedge

Part No. G 578

Mo No: 37299-024

RSS No.

Page 2 of 2



56299

Source: Film: Radiometer:



VALVE CASTINGS COMPANY
611 marion rd. columbus, ohio 43207

RADIOGRAPHIC FILM SUBMITTAL REPORT

Customer DEND Item RR Wedge
Customer Order No. E-2898-WK-2 Size 16 Series 600 #
Valve Castings Company Order No. PN-37240 Heat No. G-243
M.O. PN37240 - 02A Specification 3-GRT REV.3

Film submitted to customer's representative 7/11/77
(Date)

By R Delynko Jr
Valve Castings Company Representative
E. M. Zultow 1/2 Wedge 8/30/77

Disposition: Approved

Rejected (State reason below)

By Frank M. Mar... 9-9-77
Customer Representative
(Date)

Remarks: _____
_____ VALVE
_____ 066529
_____ SERIAL NO.

R.R.# 02254



MO. PN37240-02A

PAGE 1 OF 1

DATE 7/19/77

RADIOGRAPHIC INSPECTION REPORT

[illegible]



VALVE CASTINGS COMPANY
611 marion rd. columbus, ohio 43267

RADIOGRAPHIC DATA SHEET

ITEM						
16" 600 RB Wedge						
1. ON MADE BY RD	SETUP MADE BY RD/EX					
DATE 6-18-77						
ORIGINAL APPROVAL AND DATE						
2.						
VIEWS (INCLUDING MARKERS)	ENTIRE L-1 X-4	ENTIRE 1-R X-2	ENTIRE X-4 3	ENTIRE X-2 3		
SOURCE TYPE	NIA	-	-	-		
SOURCE SIZE	NIA	-	-	-		
SOURCE CURIES	NIA	-	-	-		
BETATRON (24 MEV)	580 R	580 R	580 R	580 R		
FILM FOCAL DISTANCE	9'	9'	9'	9'		
MATERIAL THICKNESS RADIOGRAPHED	4"-7 1/2"	4"-7 1/2"	4"-7 1/2"	4"-7 1/2"		
PENETRATOR SIZE (ON PIECE)	170 90	170 90	80 150	80 150		
ASTM	150 80	150 80	120	120		
PENETRATOR SIZE (ON BLOCKS)	NIA	-	-	-		
PENETRATOR BLOCK SIZE	NIA	-	-	-		
PENETRATOR MATERIAL GROUP	GROUP 1	SS	-	-		
FILM SIZE AND QUANTITY OF CASSETTES	14x17 1	14x17 1	14x17 1	14x17 1		
FILM TYPE	D7-04-07	D7-04-07	D7-04-07	D7-04-07		
SCREEN (in BACK)	.040	-	-	-		
SCREEN (in FRONT)	.010	-	-	-		
FILTERS	NIA	-	-	-		

2-ZT (4T < .75) SENSITIVITY LEVEL

HEAT NO. G 243

MATERIAL

MONO. 37240-02A

LCB

PATTERN NO

GENERAL NOTES

VALVE

D66529

SERIAL NO.

RSS NO

SHEET

REV

PAGE



VALVE CASTINGS COMPANY
611 Marion Rd. Columbus, Ohio 43207

Radiographic Shooting Sketch

Item: . . .

16" 600 BB wedge

Part No.

G 243

Mo No:

PN 37240-02A

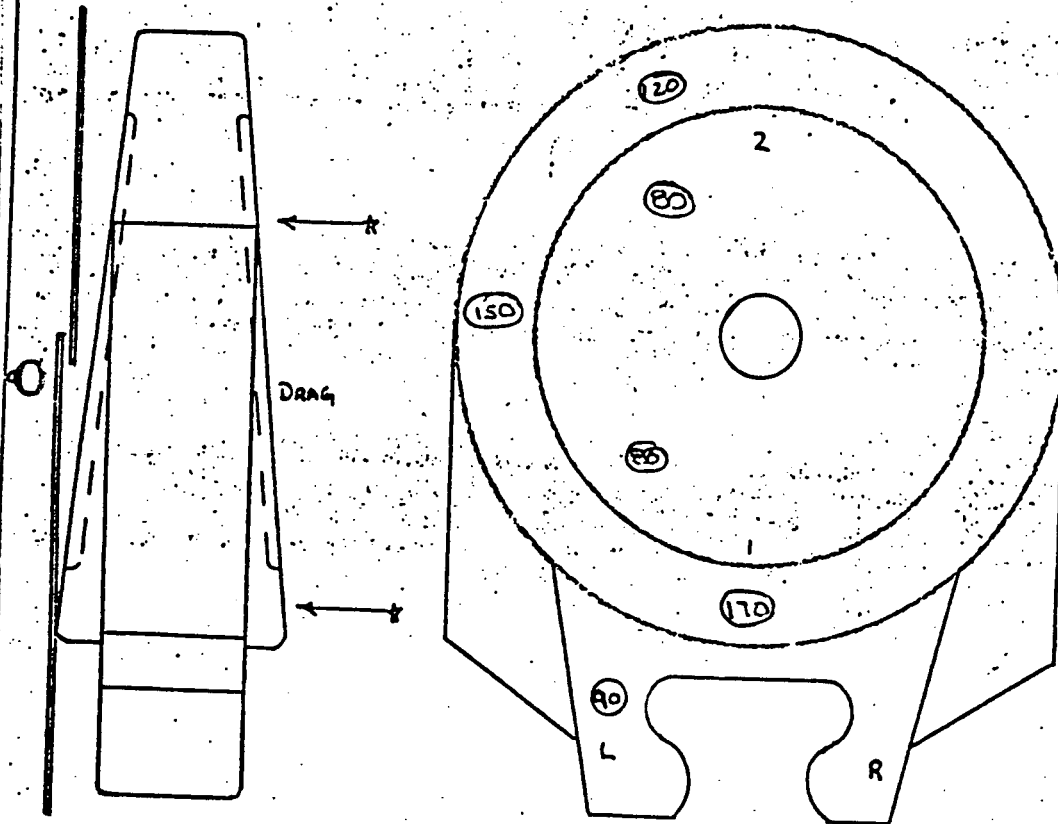
RSS No.

Page

2

of

2



VALVE

D66529

SERIAL NO.

Source

Film

PERMANENT



Customer DRAW Item WG WELDS
Customer Order No. E 2898 W N 2 Size 1 1/2" Series WOG #
Valve Castings Company Order No. Heat No. 6432 ?
M.O. PN 37240-02A Specification 16RT REL 3

Film submitted to customer's representative _____ 10/17/77
(Date)

By RD Chapman, Jr
Valve Castings Company Representative
RD Chapman 10/22/77

Disposition:

Approved

Reflected

(State as below)

By T. J. [Signature]
Customer Representative
11/25/77
(Date)

Remarks: _____

VALVE

066423

SERIAL NO.

RA. 02492

M.O. PN37240 - 02A

PAGE 1 OF 1

DATE 10-17-77

RADIOGRAPHIC INSPECTION REPORT

[illegible]

VALVE CASTINGS COMPANY
811 merion rd. columbus, ohio 43207

RADIOGRAPHIC DATA SHEET

ITEM		16" 600 BB Wedge			
DEPT	RD	SETUP MADE BY	RD/EX	DATE	7-18-77
APPROVAL					
1.					
2.					
LOADING MARKERS	SAMPLE L-1 X-4	ENTIRE 1-R X-2	ENTIRE X-4 3	ENTIRE X-2 3	
	N/A	-	-	-	
	N/A	-	-	-	
	N/A	-	-	-	
ION MEV	500 R	500 R	500 R	500 R	
DISTANCE	9'	9'	9'	9'	
THICKNESS RADIOGRAPHED	4"-8 1/2"	4"-8 1/2"	4"-7 1/2"	4"-7 1/2"	
TESTER SIZE (ION PIECE)	170 90	170 90	80 150	80 150	
ASTM	150 80	150 80	120	120	
TESTER SIZE (ION BLOCK)	N/A	-	-	-	
TESTER SIZE	N/A	-	-	-	
TESTER GROUP	GROUP 1	SS	-	-	
NO QUANTITY OF CASSETTES	14X17	14X17	14X17	14X17	
DATE	27-04-07	27-04-07	27-04-07	27-04-07	
BACK	040	-	-	-	
FRONT	010	-	-	-	
	N/A	-	-	-	
K 75) SENSITIVITY LEVEL		HEAT NO G 932 P1		MATERIAL	
		WONON 37246-62A		LCB	
		PATTERN NO		Gbg	
GENERAL NOTES					
VALVE D66423 SERIAL NO.					
RESS NO		SHEET		REV.	
Gbg		1 of 1			
		PAGE		1 of 2	



VALVE CASTINGS COMPANY
611 marion rd. columbus, ohio 43207

Radiographic Shooting Sketch

Item:

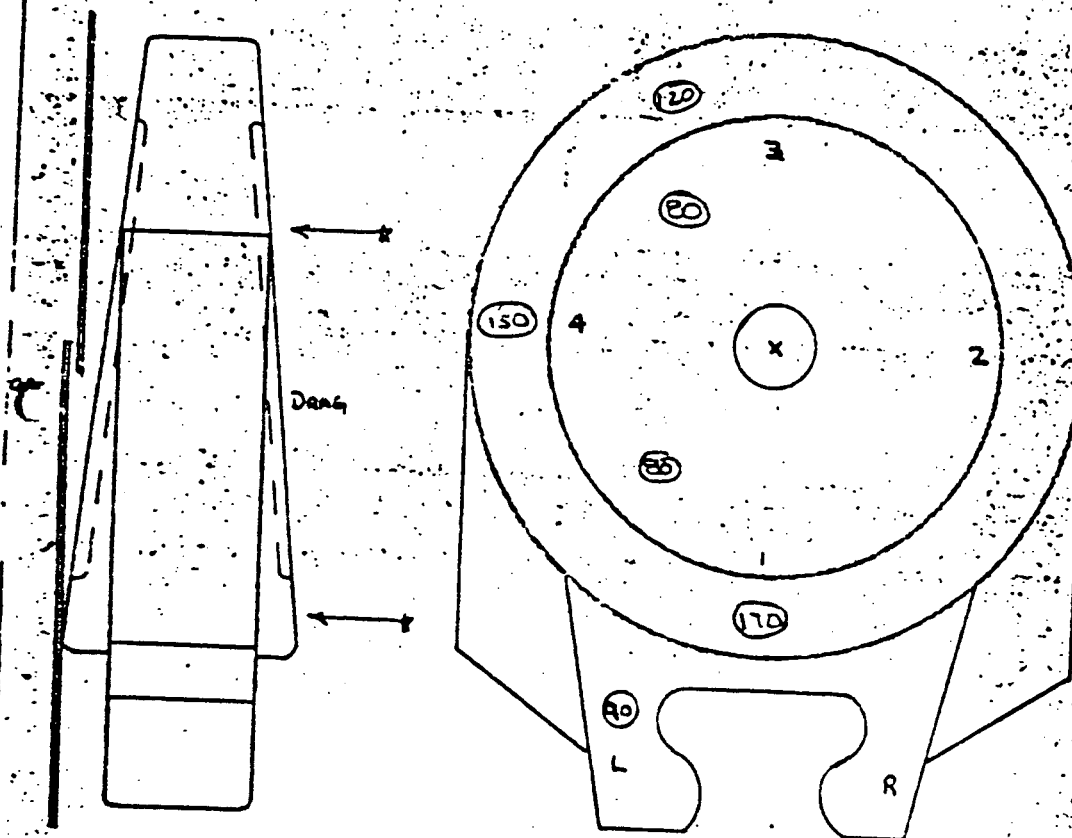
16" 600 BB wedge

Est No. G 932 P1

MoNo: PJ 37240-02A

RSS No. G 63

Page 2 of 2



VALVE

D66423

SERIAL NO.

VCPC-112

Film

PERMANENT



VALVE CASTINGS COMPANY
611 marion rd. columbus, ohio 43207

RADIOGRAPHIC FILM SUBMITTAL REPORT

Customer DRAVO Item B3 wedge
Customer Order No. _____ Size 16" Series 600 #
Valve Castings Company Order No. _____ Heat No. 6659
M.O. PN 37240-02A Specification 16RT

Film submitted to customer's representative 10/12/77
(Date)

By R. Delany
Valve Castings Company Representative
El M. Zaitany 48 Mailed 10/14/77

Disposition: Approved Rejected
(State reason below)
By Frank M. ...
Customer Representative
11/23/77
(Date)

Remarks: _____

R.R.# 02477

VALVE
D66458
SERIAL NO.



M.O. PN37240-02A

PAGE 1 OF 1

DATE 10/13/77

RADIOGRAPHIC INSPECTION REPORT

[illegible]



VALVE CASTINGS COMPANY
811 Marion Rd. Columbus, Ohio 43207

RADIOGRAPHIC DATA SHEET

ITEM		16" 600 BB Wedge			
SKETCH MADE BY	RD	SETUP MADE BY	RD / EK	DATE	6-18-77
ORIGINAL APPROVAL AND DATE					
VIEWS (INCLUDING MARKERS)		ENTIRE L-1 X-4	ENTIRE I-R X-2	ENTIRE X-4 3	ENTIRE X-2 3
SOURCE TYPE					
SOURCE SIZE		N/A	-	-	-
SOURCE CURIES		N/A	-	-	-
BETATRON (24 MEV)		N/A	-	-	-
FILM FOCAL DISTANCE		500 R	500 R	500 R	500 R
MATERIAL THICKNESS RADIOGRAPHED		9'	9'	9'	9'
PENETRATOR SIZE (ON PIECE)		4"-8 1/2"	4"-8 1/2"	4"-7 1/2"	4"-7 1/2"
ASTM		170 90	170 90	80 150	80 150
PENETRATOR SIZE (ON BLOCKS)		150 80	150 80	120	120
PENETRATOR BLOCK SIZE		N/A	-	-	-
PENETRATOR MATERIAL GROUP		N/A	-	-	-
FILM SIZE AND QUANTITY OF CASSETTES		SS	-	-	-
FILM TYPE		14X17 1	14X17 1	14X17 1	14X17 1
SCREEN #0 BACK		D7-04-07	D7-04-07	D7-04-07	D7-04-07
SCREEN #0 FRONT		.040	-	-	-
FILTERS		.010	-	-	-
		N/A	-	-	-
2-ZT (4T < .75) SENSITIVITY LEVEL		HEAT NO. G659		MATERIAL WCB	
		W.O. NO. 37240-02A			
		PATTERN NO. Gbg.			
GENERAL NOTES					
VALVE D66458 SERIAL NO.					
PC R-101 8/78		PSSS NO. Gbg.		SHEET 1 OF 1 PAGE 1 OF 2	



VALVE CASTINGS COMPANY
611 marion rd. columbus, ohio 43207

Radiographic Shooting Sketch

Item:

16 600 BB wedge

Heat No.

G 659

MoNo:

PN37240-02A

RSS No.

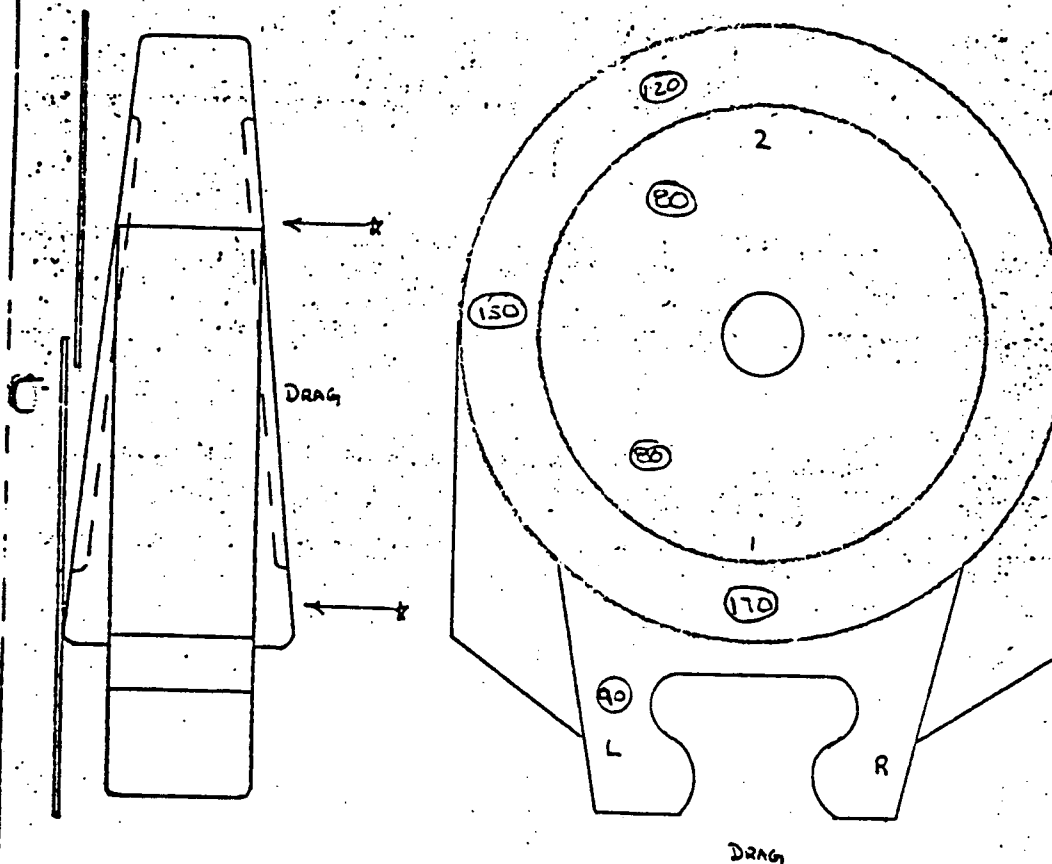
G 65

Page

2

of

2



VALVE

D66458

SERIAL NO.

Source

Film

Penetrator

0



VALVE CASTINGS COMPANY
611 marion rd. columbus, ohio 43227

RADIOGRAPHIC FILM SUBMITTAL REPORT

Customer Deavo Item WG wedge
Customer Order No. E-2899-WN-A Size 16" Series 600 #
Valve Castings Company Order No. 2N-37240 Heat No. G 932 2
M.O. PN 37240-02A Specification 14RT

Film submitted to customer's representative 10/27/77
(Date)

By R. Delata 4H
Valve Castings Company Representative
Ed M. E. Wilk, Jr. Made 11/1/77

Disposition: Approved

Rejected _____
(State reason below)

By Ed M. E. Wilk, Jr.
Customer Representative

11/25/77
(Date)

Remarks: _____

R.R.# 02530

VALVE

D66459

SERIAL NO.



PAGE 1 OF 1

DATE 10/27/77

RADIOGRAPHIC INSPECTION REPORT

[illegible]



VALVE CASTINGS COMPANY
811 Marion Rd. Columbus, Ohio 43207

RADIOGRAPHIC DATA SHEET

ITEM		16" 600. BB Wedge			
MADE BY	RD	SETUP MADE BY	RD / RK	DATE	7-10-77
ORIGINAL APPROVAL	1				
AND DATE	2				
VIEWS (INCLUDING MARKERS)	ENTIRE L-1 X-4	ENTIRE I-R X-2	ENTIRE X-4 3	ENTIRE X-2 3	
SOURCE TYPE	NIA	-	-	-	
SOURCE SIZE	NIA	-	-	-	
SOURCE CURIES	NIA	-	-	-	
BETATRON (24 MEV)	NIA	-	-	-	
FILM FOCAL DISTANCE	5800 R	5800 R	5800 R	5800 R	
MATERIAL THICKNESS RADIOGRAPHED	9'	9'	9'	9'	
PENETRATOR SIZE (ON PIECE)	4"-8 1/2"	4"-8 1/2"	4"-7 1/2"	4"-7 1/2"	
	170 90	170 90	80 150	80 150	
PENETRATOR SIZE (ON BLOCKS)	ASTM 150 80	150 80	120	120	
PENETRATOR BLOCK SIZE	NIA	-	-	-	
PENETRATOR MATERIAL GROUP	NIA	-	-	-	
FILM SIZE AND QUANTITY OF CASSETTES	6 PWP 1	SS	-	-	
FILM TYPE	14X17	14X17	14X17	14X17	
CREEN (B) BACK	D7-D4-07	D7-D4-07	D7-D4-07	D7-D4-07	
CREEN (B) FRONT	.040	-	-	-	
ALTERS	.010	-	-	-	
	NIA	-	-	-	
-2T (4T < .75) SENSITIVITY LEVEL		HEAT NO. G932 P2		MATERIAL	
		M.O. NO. 37240-22A		LCB	
		PATTERN NO.		Gbg	
GENERAL NOTES					
VALVE D66459 SERIAL NO.					
PC R-101 8/78		PRESS NO.		SHEET	
		Gbg		1 of 1	
				PAGE	
				1 of 2	
				REV	



VALVE CASTINGS COMPANY
611 Marion Rd. Columbus, Ohio 43207

Radiographic Shooting Sketch

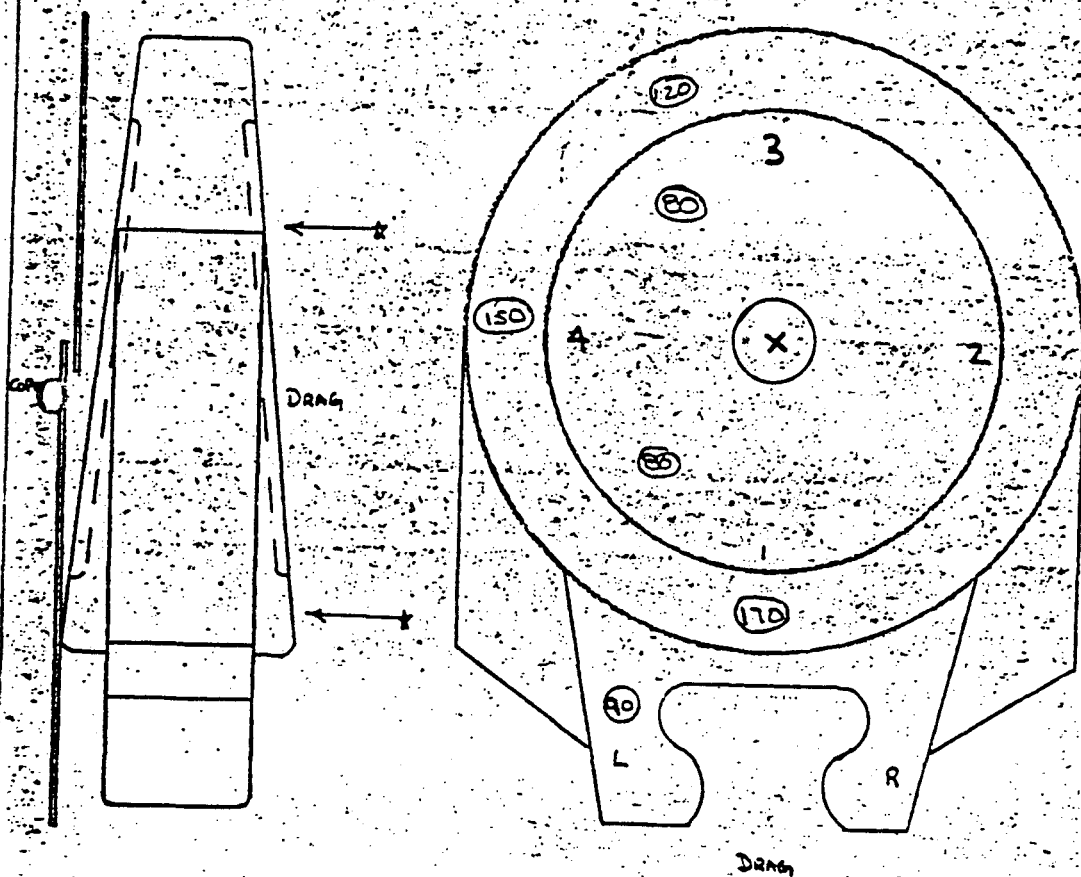
Item: 16 600 BB wedge

SI No. G-932 P2

MoNo: PN37240 - CZA

RSS No. G-932

Page 2 of 2



Source: 61m Penetrometer Q

CFCA-102