

SITE PROBLEM

REPORT TRANSMITTAL

DAVIS - D-SS-1

**** CLEARED *

JUL 13 1978

For: Change Control For Distribution

S. H. Klein - Quality Assurance

Central Engineering Files

S. A. Lawrence - Task Engineer(s)

R. C. Likon - Project Manager

File: 13-14-446

Contract No.: 620-00 14

SPR: 446, Rev 0

Title: Upgrade CF Valves
Documentation

Date: 6/30/78

Status Code: C

L. C. Rogers - MET. ED.

F. R. Faist - TOLEDO

J. R. Bohart - Intl. Support

B. A. Karrasch - Plant Integration

P. E. Perrone

Attached is one copy of Site Problem Report No. 446 which was processed on Contract 620-00 14. Future contracts have been reviewed for the potential of a similar problem. This problem ~~is~~ is not considered applicable to other contracts

REMARKS:

COMPLETED

Joseph A. Hulch
NUCLEAR SERVICE SUPPORT ENGINEER

CLEARED

10820

Cleared

FR Faist

BABCOCK & WILCOX SPR #446

CUSTOMER Toledo Edison Company	ORIGINATOR F. R. Faist	DATE 5/15/78	DOC. ID. 13	CONT. NO. 600-0014	SPR NO. 446	REV. NO. 3
VENDOR Velan	P.A. NO. 02316816	PART NO./TASK NO. GROUP NO. SEQ. NO. 31/041/003-006				
TITLE (MAX 30 CHARACTERS) Upgrade CP Valves Documentation			PROBLEM CONTACT F. R. Faist <i>FR Faist</i>			

DESCRIPTION OF PROBLEM: See Attachment #1.

Req'd. Resolution Date: ASAP Req'd. Completion Date: ASAP

STATUS-ACTION TO DATE, INCLUDING PERSONS CONTACTED:
C. Daft (TECo) advised site office of problem.
T. Scott aware of problem.

FURTHER ACTION RECOMMENDED BY SITE PERSONNEL:
1. Correct QA documentation.
2. Confirm what nameplates go on what valves, old serial number vs new serial number.

RESOLUTION:
attached is data package from Velan which resolves the problems concerning the nameplates & documentation (original to be sent to site via NPGD QA)
(Pgs 9 thru 11)

PREPARED BY <i>J.D. Fulcher</i>	DATE 6/8/78	APPROVED BY <i>R.C. Lubin</i>	DATE 6/9/78
REVIEWED BY <i>J.R. ...</i>	DATE 6/9/78		

COST CATEGORY <input type="checkbox"/> NORM <i>NONE</i> <input type="checkbox"/> OTHER	FIELD CHANGE REQ <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	F.C.A. NO. 04- <i>N/A</i>	SIGNIF. DEFICIENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
--	--	-------------------------------------	--

SITE COMPLETION REPORT: Revised QA documentation given to C. Daft, TECo. Nameplates are installed as noted on Column A, Attachment 1 of SPR.

DEVIATIONS:
 NONE SPR REV NO.

DATE COMPLETED: 6/19/78

COMPLETED BY: F. R. Faist *FR Faist* **DATE:** 6/19/78

F. R. Faist *FR Faist* 6/19/78

2020

SHEET 1 **OF** 17

Description of Problem:

- References: 1. Memo, J. Lauer to G. Armontrout, January 9, 1978, "Upgrading of CF Valves".
 2. Memo, J. Lauer to F. Paist, January 9, 1978, "Upgrading of CF Valves".

The CF valves to be upgraded are CF-HV2A, 2B, 5A, & 5B. The Velan Valve Form NPV-1, Manufacturers Data Report for Nuclear Pumps & Valves supplied (for Class II valves, certified November 24, 1977) contains the following information:

<u>(#5) Valve Identification</u>	<u>(8b) Forgings Body Serial No.</u>
A. W5-274-13MS CF-HV2B	1-1 826-1
B. W5-274-13MS CF-HV2A	1-3 825-1
C. W5-274-13MS CF-HV5A	1-4 827-1
D. W5-274-13MS CF-HV5B	1-2 824-1

The new nameplates are all identical, with the exception of the serial numbers, 824-1, 825-1, 826-1, 827-1. However, the following is the QA documentation discrepancies that exist:

<u>Valve No.</u>	A New <u>Nameplate Serial No. to be applied per Ref. 2</u>	B New <u>Nameplate Serial No. to be applied per Velan QA doc.</u>	C Old <u>Nameplate Serial No. as found</u>	D Old <u>Nameplate Serial No. as shown on New QA documentation</u>
CF-HV2A	824-1	825-1	1-2	1-3
CF-HV2B	825-1	826-1	1-3	1-1
CF-HV5A	826-1	827-1	1-1	1-4
CF-HV5B	827-1	824-1	1-4	1-2

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Attachment #1 - continued
SFR #446 - 630-0014
5/15/78

TRCo has presently installed nameplates per Column A above, which is inconsistent with QA documentation. However, new QA documentation appears to be in error with regard to "Body Serial Number", old number vs new number.

FRF:nlf
5/15/78

4020 ✖

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

From C. A. ARMONTROUT, QUALITY ASSURANCE

From J. A. LAUER, PROJECT MANAGER (X 2156)

BOS 663.5

Cust. TECO DB-1

File No. NSS-14
or Ref. 8730.41/14

Subj. UPGRADING OF CF VALVES

Date AUG 2, 1978

This letter is your one customer and one account only.

At TECO's request, we have asked Velan to upgrade the core flood vent and drain valves CF-HV2A&B and CF-HV5A&B from Class III of 1968 Pump & Valve Code to Class II of the same code. Velan has agreed and forwarded the attached revised data packages and new nameplates.

Will you please review the data packages, and if adequate, forward them directly to TECO QA. In the meantime I will send the replacement nameplates to Fred Faist. After the data packages are forwarded, I'll arrange for a Hartford inspector to witness the replacement of the nameplates.

JAL/hj

Attachment

cc: F. R. Faist

J. A. Lauer
J. A. LAUER

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THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

F. R. FAISL, DAVIS-BESSE SITE

From: J. A. LAUER, PROJECT MANAGER (X2156)

BDS 66J-5

Cust.: TECO DB-1

File No. NSS-14
or Ref. BA30.41/14

Subj.: UPGRAIDING OF CF VALVES

Date JANUARY 9, 1978

This letter is confidential and for the subject only

Attached are replacement nameplates to be applied to Velan core flood valves as follows:

- CF-HV2A 824-1
- CF-HV2B 825-1
- CF-HV5A 826-1
- CF-HV5B 827-1

Please hold these nameplates until we verify the adequacy of the new QA data packages and forward them to TECO QA. Then call Mr. Henry in the Cleveland Office of Hartford Steam Boiler (Area 216-228-5200) and arrange a time when he can have an inspector witness the substitution of the new nameplates on the valves. You'll also have to have TECO maintenance available to actually change the nameplates.

Will you also save the old obsolete nameplates and send them to:

Velan Valve Corporation
Beekmantown Road
Plattsburgh, New York 12901

Attention: Mr. J. E. O'Donnell

You should include a letter identifying the valves and telling him the nameplate transfer has been made. If possible, get the Hartford inspector to countersign your letter as additional proof of the proper transfer.

J. A. Lauer
J. A. LAUER

JAL/hj

Attachments (Velan letter
and nameplates)

cc: B. V. Zachariah w/o att
C. A. Armontrout w/o att

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VELAN ENGINEERING COMPANIES

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS & VALVES -
As required under the Provisions of the ASME Nuclear Pump & Valve Code

Manufactured by VELAN ENGINEERING LTD. 2125 Ward Ave. Montreal C-order No. P1-0212-N ITEM: 1
 Manufactured for THE BABCOCK & WILCOX COMPANY Contract No. 0231681S
 Made by THE BABCOCK & WILCOX COMPANY
 Location TOLEDO EDISON
 Valve Identification W5-274-23MS CF-HV2B s/n 025-1 and model
 (a) Shop Drawing No. P1-0212-N-2 Rev. B Prepared by VELAN ENGINEERING LIMITED
 Design Conditions 700 psi 300 psi Specified by BABCOCK & WILCOX COMPANY
 The Design Complies with Class I (II) III (circle one)
 (a) Design Information on file at VELAN ENGINEERING LTD. (ENGINEERING DEPT.)
 (b) Design Specification certified by
 (c) Design Report on file at
 (d) Design Report certified by
 The Materials comply with Class I (II) III (circle one)
 Eng. (I) Province Reg. No. Date
 VELAN ENGINEERING LTD. (ENGINEERING DEPT.)
 A. K. VELAN QUEBEC 10483 1955
 Eng. (II) Province Reg. No. Date

Mark No.	Mat. Spec.	Manufacturer	Body Ser. No.	Body H. Code	Bonnet H.C.	List. No. = H.C.
(a) Castings						
1. DISC	STELLITE 6	VESTSHELL INC.				RXI 117-6
2.						
3.						
4.						
(b) Forgings						
BODY	ASTM-A-182 316	CANFORGE	1-1 826-1	826-1 BW		
3.						
4.						
(c) Bolting						
1.						
2.						
(d) Other Components						
1. SIEM	ASTM-A-461	FIRTH BROWN ST.				690706
2.	630					
3.						
4.						

9. The Manufacture and Examination complies with Class I (II) III. (circle one)
 Shop Hydrostatic Test 2175 psi
 Certificate of Authorization No. N1738
 We certify the statements of items number 8 and 9 in this data report to be correct.
 Date Nov 15 1971 VELAN ENGINEERING LTD. By *McGowan*
 (Manager of Inspection)

CERTIFICATE OF SHOP INSPECTION

VALVE MADE BY VELAN ENGINEERING LIMITED MONTREAL, CANADA
 I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors of the Province of QUEBEC and employed by the DEPARTMENT OF LABOUR of QUEBEC
 have inspected the valve described in the manufacturer's data report on the best of my knowledge and belief, the manufacturer has constructed this valve in accordance with the ASME Code for Nuclear Pumps and Valves and state that signing this certificate with my signature and my employer's name, expressed or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date Nov 24 1971
Benoit Lussier
 Inspector's Signature
 Commissions National Board of Boiler and Pressure Vessel Inspectors

VILLAIN ENGINEERING COMPANIES

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS & VALVES

As required under the Provisions of the ASME Nuclear Pump & Valve Code

- Manufactured by VELAN ENGINEERING LTD., 2125 Ward Ave., Montreal Order No. P1-0217-N ITEM: 1
- Manufactured for THE BABCOCK & WILCOX COMPANY Contract No. 02316815
- Base THE BABCOCK & WILCOX COMPANY
- Location TOLEDO EDISON
- Valve Identification W5-274-13MS CF-HV2A *sub B*
 (a) Shop Drawing No. P1-0212-N-2 Rev. B Prepared by VELAN ENGINEERING LIMITED
- Design Conditions 700 psi 300 °F Specified by BABCOCK & WILCOX COMPANY
 Class I (II) III
(Article 6-1)
VELAN ENGINEERING LTD. (ENGINEERING DEPT.)
- The Design Complies with:
 (a) Design Information on file at _____
 (b) Design Specification certified by _____
 (c) Design Report on file at _____
 (d) Design Report certified by _____

Eng. (I)	Province	Reg. No.	Date
VELAN ENGINEERING LTD. (ENGINEERING DEPT.)			
A. K. VELAN	QUEBEC	16453	1965
Eng. (II)	Province	Reg. No.	Date

Mark No.	Mat. Spec.	Manufacturer	Body Ser. No.	Body H. Code	Bonnet H.C.	Disc. <small>Standard H.C.</small>
(a) Castings						
1. DISC	STELLITE 6	VESTSHELL INC.				RXI 113-643
2.						
3.						
4.						
(b) Forgings						
1. BODY	ASTM-A-182 316	CANFORGE	1-3 825-1	BW		
2.						
3.						
4.						
(c) Bolting						
1.						
2.						
(d) Other Components						
1. SIEM	ASTM-A-461 630	FIRTH BROWN ST.				690706
2.						
3.						
4.						

- The Manufacture and Examination complies with Class I (II) III. (circle one)
 Shop Hydrostatic Test 2175 psi
 Certificate of Authorization No. N1738
 We certify the statements of items number 8 and 9 in this data report to be correct.
 Date Nov 1st 1977 By VELAN ENGINEERING LTD. *M. Robitaille*
(Manager of Inspection)

CERTIFICATE OF SHOP INSPECTION

VALVE MADE BY VELAN ENGINEERING LIMITED at MONTREAL, CANADA
 I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors of the Province of QUEBEC and employed by the DEPARTMENT OF LABOUR of QUEBEC
 have inspected the valve described in this manufacturer's data report on Nov 24 1977 and state that to the best of my knowledge and belief, the manufacturer has constructed this valve in accordance with the ASME Code for Nuclear Pumps and Valves by signing this certificate neither the inspector nor his employer accepts any warranty, expressed or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date Nov. 24 1977
Robert J. Lindell
Inspector's Signature Commissioned National Board or Province and City

89020

VELAN ENGINEERING COMPANIES

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS & VALVES -
As required under the Provisions of the ASME Nuclear Pump & Valve Code

1. Manufactured by VELAN ENGINEERING LTD. 2121 Ward Ave., Montreal Quebec No. P1-0212-N ITEM: 1
2. Manufactured for THE BABCOCK & WILCOX COMPANY Contract No. 073168LS

3. Owner THE BABCOCK & WILCOX COMPANY
4. Location TOLEDO EDISON

5. Valve Identification WS-274-13MS CF-HV54 *1-10-60*
(a) Shop Drawing No. P1-0212-N-2 Rev. B *62nd new*

6. Design Conditions 700 psi 300 *F Specified by BABCOCK & WILCOX COMPANY
7. The Design Complies with Class I II III (circle one)

- (a) Design Information on file at
- (b) Design Specification certified by
- (c) Design Report on file at
- (d) Design Report certified by

Prepared by VELAN ENGINEERING LIMITED
*F Specified by BABCOCK & WILCOX COMPANY
Class I II III (circle one)
VELAN ENGINEERING LTD. (ENGINEERING DEPT.)
Eng. (I) Province Reg. No. Date
VELAN ENGINEERING LTD. (ENGINEERING DEPT.)
A. K. VELAN QUEBEC 16463 1965
Eng. (I) Province Reg. No. Date

Mark No.	Mat. Spec.	Manufacturer	Body Ser. No.	Body H. Code	Bonnet H.C.	Disc. Valve H.C.
(a) Castings						
1. DISC	STELLITE 6	VESTSHELL INC.				RXI 113-643
2.						
3.						
4.						
(b) Forgings						
1. BODY	ASTM-A-182 316	CANFORCE	<i>1-2</i> 827-1	BN		
2.						
3.						
4.						
(c) Bolting						
1.						
2.						
(d) Other Components						
1. STEM	ASTM-A-461 630	FIRTH BROWN ST.				690706
2.						
3.						
4.						

8. The Manufacture and Examination complies with Class I II III. (circle one)
Shop Hydrostatic Test 2175 psi
Certificate of Authorization No. N1738
We certify the statements of items number 8 and 9 in this data report to be correct.
Date Nov 15 1977 VELAN ENGINEERING LTD. By *Richard [Signature]*
Inspector of Inspection

CERTIFICATE OF SHOP INSPECTION

VALVE MADE BY VELAN ENGINEERING LIMITED at MONTREAL, CANADA
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors of the Province of QUEBEC and employed by the DEPARTMENT OF LABOUR of QUEBEC
have inspected the valve described in this manufacturer's data report on *Nov 24* 1977 and state that to the best of my knowledge and belief, the manufacturer has constructed this valve in accordance with the ASME Code for Nuclear Pumps and Valves. I am issuing this certificate under the Inspector and his employer's express or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date *Nov 24* 1977
Richard [Signature]
Inspector of Inspection

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VALVE MANUFACTURING COMPANIES

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS & VALVES

As required under the Provisions of the ASME Nuclear Pump & Valve Code

1. Manufactured by VELAN ENGINEERING LTD., 9125 Ward Ave., Montreal Order No. P1-0212-N ITEM 1

2. Manufactured for THE BARCOCK & WILCOX COMPANY

3. Order No. THE BARCOCK & WILCOX COMPANY Contract No. 023168LS

4. Location TOLEDO EDISON

5. Valve Identification W5-274-13MS CF-R/S A

(a) Shop Drawing No. P1-0212-N-2 Rev. B

6. Design Conditions 700 psi

7. The Design Complies with

(a) Design Information on file at _____

(b) Design Specification certified by _____

(c) Design Report on file at _____

(d) Design Report certified by _____

8. The Materials comply with Class I, II, III (circle one)

Prepared by VELAN ENGINEERING LIMITED

Checked by BARCOCK & WILCOX COMPANY

(Name of Co. & Dept.)

VELAN ENGINEERING LTD. (ENGINEERING DEPT.)

Eng. No.	Province	Reg. No.	Date
<u>A. S. VELAN</u>	<u>QUEBEC</u>	<u>10453</u>	<u>1965</u>
<u>Eng. No.</u>	<u>Province</u>	<u>Reg. No.</u>	<u>Date</u>

Mark No.	Mat. Spec.	Manufacturer	Body Ser. No.	Body H. Code	Bonnet H.C.	Disc. H.C.
a) Castings						
1. DISC	STELLITE 6	VESTSHELL, INC.				
2.						
3.						
4.						
b) Forgings						
1. BODY	ASTM-A-182 316	CANFORGE	<u>1-2</u> <u>(122-1)</u>	<u>ECAP</u>		
2.						
3.						
4.						
Bolting						
1.						
2.						
Other Components						
1. STEM	ASTM-A-461 630	FIRTH BROWN ST.				690706
2.						
3.						
4.						

14. Manufacture and Examination complies with Class I, II, III. (circle one)

Shop Hydrostatic Test 2175 psi

Certificate of Authorization No. W1738

We certify the statements of items number 8 and 9 in this data report to be correct.

Date Nov 1st 1977 By VELAN ENGINEERING LTD. *R. L. L...*
(Manager of Inspection)

CERTIFICATE OF SHOP INSPECTION

VALVE MADE BY VELAN ENGINEERING LIMITED at MONTREAL, CANADA

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors of the Province of QUEBEC and employed by the DEPARTMENT OF LABOUR of QUEBEC

have inspected the valve described in this manufacturer's data report on Nov 24 1977 and state that on the basis of my knowledge and belief, the manufacturer has constructed this valve in accordance with the ASME Code for Nuclear Pumps and Valves. I am issuing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the manufacturer's data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date Nov 24 1977

R. L. L...
Inspector's Signature

Commissioned by the National Board of Boiler and Pressure Vessel Inspectors

16820

Babcock & Wilcox

Power Generation Group

June 9, 1978

P.O. Box 1260, Lynchburg, Va. 24505

Telephone: (804) 384-5111

BW/TECC-QA24

File: NSS-14

T1.2

Toledo Edison Company
5501 N. State Route 2
Oak Harbor, OH 43449

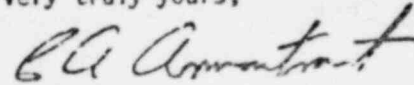
Attention: Mr. J.D. Lenardson
QA Director

Subject: Corrected NPV Form for
Core Flood System Valves

Dear Mr. Lenardson:

Attached are corrected NPV Forms and revised Hydro Test Reports for Core Flood System Valves, CF-HV2A & B and CF-HV5A & B. Please insert this documentation into your copies of the QA Data Package for these valves and remove the obsolete documentation.

Very truly yours,



C. A. Armentrout
QA Engineer

CAA:pbv
Attachment

cc: w/o
E.C. Novak
J. Fulcher
R. Luken

11320

velan
engineering



PLANTS-USINES
Montreal, Canada
Granby, Que.
Plattsburgh, N.Y., U.S.A.
Leicester, England
Paris, France

Velan Engineering Ltd.
2125 Ward
Montreal, Que. H4M 1T6
Tel.: (514) 748-7743
Telex: 05-825668
TWX: 610-421-3673

June 5, 1978.

Babcock & Wilcox
Power Generation Group
P.O. Box 1260
Lynchburg, Va. 24505
U. S. A.

Attention: Mr. B.V. Zachariah
Senior Buyer

Subject: Corrected NPV Forms for the
Core Flood System Valves
Your Order: 023168 LS
Velan Order: P1-0212-N Item 1



Gentlemen:

With reference to your dated May 17, 1978, attached please find two copies of each of the corrected NPV Forms and revised Hydro Test Reports for the subject valves.

Valve Tag No.	Data Package No.	Valve S/No.	Body S/No.	New Name Plate S/No.
CF-HV2A	770824	824-1	1-2	824-1
CF-HV2B	770825	825-1	1-3	825-1
CF-HV5A	770826	826-1	1-1	826-1
CF-HV5B	770827	827-1	1-4	827-1

Would you please arrange to insert the revised copies in the related Data Packages and destroy the ones issued previously.

Your cooperation would be greatly appreciated.

Yours truly,
VELAN ENGINEERING LIMITED

A.S. Pokomandy
A.S. Pokomandy
Manager of Quality Control

ASP:jp

120220
A

*Resolution
S.P.R. 446 REV0
(NAGA) QA
NOTE: ORIGINAL to B&W - QA to forward to site
6/8/78 JH*



VELAN ENGINEERING COMPANIES

Revised: Aug 26-1977 800824

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS & VALVES As required under the Provisions of the ASME Nuclear Pump & Valve Code

- Manufactured by VELAN ENGINEERING LTD., 2125 Ward Ave., Montreal Order No. PI-0212-N ITEM: 1
- Manufactured for THE BABCOCK & WILCOX COMPANY Contract No. 023168LS
- Owner THE BABCOCK & WILCOX COMPANY
- Location TOLEDO EDISON
- Valve Identification W5-274-13MS CF-HV 2A
- (a) Shop Drawing No. PI-0212-N-2 Rev. B Prepared by VELAN ENGINEERING LIMITED
- Design Conditions 700 psi 300 °F Specified by BABCOCK & WILCOX COMPANY
(Name of Co. & Dept.)
- The Design Complies with Class I II III (circle one)
(a) Design Information on file at VELAN ENGINEERING LTD. (ENGINEERING DEPT.)
(b) Design Specifications certified by _____
(c) Design Report on file at _____
(d) Design Report certified by _____

Eng. (I)	Province	Reg. No.	Date
VELAN ENGINEERING LTD. (ENGINEERING DEPT.)			
A. K. VELAN	QUEBEC	16463	1965
Eng. (I)	Province	Reg. No.	Date

Mark No.	Mat. Spec.	Manufacturer	Body Ser. No.	Body H. Code	Donnet H.C.	Disc. Valve H.C.
(a) Castings						
1. DISC	STELLITE 6	VESTSHELL INC.				RXI 113-643
2.						
3.						
4.						
(c) Forgings						
1. BODY	ASTM-A-182 316	CANFORGE	1-2 824-1	BW		
2.						
3.						
4.						
(c) Bolting						
1.						
2.						
(d) Other Components						
1. STEM	ASTM-A-461 630	FIRTH BROWN ST.				690706
2.						
3.						
4.						

- The Manufacture and Examination complies with Class I II III (circle one)
Shop Hydrostatic Test 2175 psi
Certificate of Authorization No. N1738
We certify the statements of items number 8 and 9 in this data report to be correct.
Date Nov 15 1977 VELAN ENGINEERING LTD. By [Signature]
(Manager of Inspection)

CERTIFICATE OF SHOP INSPECTION

VALVE MADE BY VELAN ENGINEERING LIMITED at MONTREAL, CANADA

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors of the Province of QUEBEC and employed by the DEPARTMENT OF LABOUR of QUEBEC

have inspected the valve described in this manufacturer's data report on Nov 24 1977 and state that to the best of my knowledge and belief, the manufacturer has constructed this valve in accordance with the ASME Code for Nuclear Pumps and Valves. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date Nov 24 1977
[Signature]
Inspector's Signature

Commission _____
National Board or Province and its

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HYDROSTATIC TEST REPORT

VALVES

VALVE P.O. P1-0212-N

CUSTOMER P.O. 02316845

ITEM 1

QUANTITY 1

DWG. * P1-0212-N-2 Rev 1 B

SPEC. * 1025-0469

VALVE DESCRIPTION * 1" Bonnetless globe valve s/w cone - Stainless steel with
Limiting motor operator (SM3-000-2)

VALVES ARE HYDROST. TESTED ACCORDING TO VEL-NDT-640 PROCEDURE.

	<u>SHELL</u>	<u>SEAT</u>	<u>BACKSEAT</u>
TIME	<u>10 mins.</u>	<u>5 mins</u>	<u>5 mins</u>
PRESSURE	<u>2145 PSI.</u>	<u>1500 PSI</u>	<u>1500 PSI</u>
RESULT	<u>0</u>	<u>0 LEAKAGE</u>	<u>0 LEAKAGE</u>

MOTOR SERIAL NO.: 158233

ALIGNMENT OF VALVE AND OPERATOR SYSTEM SHOP TESTED AND FOUND SATISFACTORY.

MOTOR TAG NO.: CF-HV2A

TORQUE: OPEN 1.5

CLOSE 1.0

TIME: OPEN 6.1 sec

CLOSE 6.1 sec

DATE 3/27/73

TESTER J. D. Pinter

INSPECTOR J. Silveira

WITNESSED (CUSTOMER REPRESENTATIVE)
(IF REQUIRED)

* Revised: May 26-1978 indicate: DWG, spec, & description

[Handwritten signature]

1400-20
X



VELAN ENGINEERING COMPANIES

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS & VALVES

As required under the Provisions of the ASME Nuclear Pump & Valve Code

- Manufactured by VELAN ENGINEERING LTD., 2125 Ward Ave., Montreal Order No. P1-0212-N ITEM: 1
- Manufactured for THE BABCOCK & WILCOX COMPANY Contract No. 023168LS
- Owner THE BABCOCK & WILCOX COMPANY
- Location TOLEDO EDISON
- Valve Identification W5-274-13MS CF-HV2B
(a) Shop Drawing No. P1-0212-N-2 Rev. B Prepared by VELAN ENGINEERING LIMITED
- Design Conditions 700 psi 300 °F Specified by BABCOCK & WILCOX COMPANY
(Name of Co. & Psp.)
- The Design Complies with Class I II III (circle one)
(a) Design Information on file at VELAN ENGINEERING LTD. (ENGINEERING DEPT.)
(b) Design Specification certified by _____
(c) Design Report on file at VELAN ENGINEERING LTD. (ENGINEERING DEPT.)
(d) Design Report certified by A. K. VELAN QUEBEC 16463 1965
Eng. (I) Province Reg. No. Date
- The Materials comply with Class I, II III (circle one)

Mark No.	Mat. Spec.	Manufacturer	Body Ser. No	Body H. Code	Bonnet H.C.	Disc. W.C. H.C.
(a) Castings						
1. DISC	STELLITE 6	VESTSHELL INC.				RXI 113-643
2.						
3.						
4.						
(b) Forgings						
1. BODY	ASTM-A-182 316	CANFORGE	1-3 625-1 JH	BN		
2.						
3.						
4.						
(c) Bolting						
1.						
2.						
(d) Other Components						
1. STEM	ASTM-A-461 630	FIRTH BROWN ST.				690706
2.						
3.						
4.						

9. The Manufacture and Examination complies with Class I II III. (circle one)

Shop Hydrostatic Test 2175 psi

Certificate of Authorization No. N1738

We certify the statements of items number 8 and 9 in this data report to be correct.

Date Nov 1st 1977 VELAN ENGINEERING LTD. By _____

A. K. Velan
(Manager of Inspection)

CERTIFICATE OF SHOP INSPECTION

VALVE MADE BY VELAN ENGINEERING LIMITED at MONTREAL, CANADA
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors of the Province of QUEBEC and employed by the DEPARTMENT OF LABOUR of QUEBEC

have inspected the valve described in this manufacturer's data report on _____ 19____ and state that to the best of my knowledge and belief, the manufacturer has constructed this valve in accordance with the ASME Code for Nuclear Pumps and Valves. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date Oct 24 1977

Comit Madlita
Inspector's Signature

Commissions _____
National Board or Province and No _____

154020
2

HYDROSTATIC TEST REPORT

770825

VALVES

VELAN P.C. P1-0212-N CUSTOMER P.O. 02316-S.L.S.

ITEM 1 QUANTITY 1

ENG. P1-0212-N-2 Rev: B SPEC. 1025-0469

VALVE DESCRIPTION 1" Bonnetless Globe valve s/w conn. stainless steel with
limitorque motor operator (548-000-2)

VALVES ARE HYDROST. TESTED ACCORDING TO VEL-NDT-640 PROCEDURE.

SHELL

SEAT

BACKSEAT

TIME	TIME	TIME
<u>11 min.</u>	<u>5 min.</u>	<u>5 min.</u>
PRESSURE <u>2175 PSI.</u>	PRESSURE <u>1500 PSI.</u>	PRESSURE <u>1500 PSI.</u>
RESULT <u>0</u>	RESULT <u>0</u> DAMAGE	RESULT <u>0</u> DAMAGE

MOTOR SERIAL NO.: 1552-34

MOTOR TAG. NO.: C.F-HV2.B

TORQUE: OPEN 1.5

CLOSE 1.5

TIME: OPEN 6.2 sec

CLOSE 6.2 sec

ALIGNMENT OF VALVE AND OPERATOR SYSTEM SHOP TESTED AND FOUND SATISFACTORY.

DATE 3/28/73

TESTER: J. G. Britton

INSPECTOR: [Signature]



WITNESSED (CUSTOMER REPRESENTATIVE) (IF REQUIRED)

* Revised; May 26-1978 Indicate; DWG, Spec & Description

[Signature]

16820
13

VELAN ENGINEERING COMPANIES

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS & VALVES
As required under the Provisions of the ASME Nuclear Pump & Valve Code

1. Manufactured by VELAN ENGINEERING LTD., 2125 Ward Ave., Montreal Order No. PI-0212-N ITEM: 1
2. Manufactured for THE BABCOCK & WILCOX COMPANY Contract No. 023168LS
3. Owner THE BABCOCK & WILCOX COMPANY
4. Location TOLEDO EDISON
5. Valve Identification W5-274-13MS CF-HV54
(a) Shop Drawing i.c. PI-0212-N-2 Rev. B Prepared by VELAN ENGINEERING LIMITED
6. Design Conditions 700 psi 300 °F Specified by BABCOCK & WILCOX COMPANY
7. The Design Complies with Class I II III (circle one)
(a) Design Information on file at VELAN ENGINEERING LTD. (ENGINEERING DEPT.)
(b) Design Specification certified by _____
(c) Design Report on file at _____
(d) Design Report certified by _____
8. The Materials comply with Class I II III (circle one)
- | Eng. (I) | Province | Reg. No. | Date |
|--------------------|---------------|--------------|-------------|
| <u>A. K. VELAN</u> | <u>QUEBEC</u> | <u>16463</u> | <u>1955</u> |
| Eng. (I) | Province | Reg. No. | Date |

Mark No.	Mat. Spec.	Manufacturer	Body Ser. No.	Body H. Code	Bonnet H.C.	Disc. Vendor H.C.
(a) Castings						
1. DISC	STELLITE 6	VESTSHELL INC.				RXI 113-643
2.						
3.						
4.						
(b) Forgings						
1. BODY	ASTM-A-182 316	CANFORGE	<u>1-1</u> <u>826-1</u>	BW		
2.						
3.						
4.						
(c) Bolting						
1.						
2.						
(d) Other Components						
1. STEM	ASTM-A-461 630	FIRTH BROWN ST.				690706
2.						
3.						
4.						

9. The Manufacture and Examination complies with Class I II III (circle one)

Shop Hydrostatic Test 2175 psi

Certificate of Authorization No. N1738

We certify the statements of items number 8 and 9 in this data report to be correct.

Date Nov 15th 1977

VELAN ENGINEERING LTD.

By

R. Blouin
[Manager of Inspection]

CERTIFICATE OF SHOP INSPECTION

VALVE MADE BY VELAN ENGINEERING LIMITED at MONTREAL, CANADA

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors of the Province of QUEBEC and employed by the DEPARTMENT OF LABOUR of QUEBEC

have inspected the valve described in this manufacturer's data report on Oct. 24 1977, and state that to the best of my knowledge and belief, the manufacturer has constructed this valve in accordance with the ASME Code for Nuclear Pumps and Valves. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date Nov 24 1977

Benoit F. Gauthier
Inspector's Signature

Commissions _____
National Board or Province and No. _____

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14

HYDROSTATIC TEST REPORT

770826

VALVES

VELAN P.O. PI-0212-N CUSTOMER P.O. 09316812

ITEM 1 QUANTITY 1

DWG. *PI-0212-N-2 Rev: B SPEC. *1025-0469

VALVE DESCRIPTION * 1" Bonnetless Globe s/w connection standard shell with
Limiting motor operator (SM3-000-2)

VALVES ARE HYDROST. TESTED ACCORDING TO VEL-NDT-640 PROCEDURE.

<u>SHELL</u>		<u>SEAT</u>	<u>BACKSEAT</u>
TIME <u>10 Min</u>	TIME <u>5 Min</u>	TIME <u>5 Min</u>	
PRESSURE <u>2175 PSI</u>	PRESSURE <u>1500 PSI</u>	PRESSURE <u>1500 PSI</u>	
RESULT <u>0</u>	RESULT <u>0</u> LEAKAGE	RESULT <u>0</u> LEAKAGE	

ALIGNMENT OF VALVE AND OPERATOR SYSTEM SHOP TESTED AND FOUND SATISFACTORY.

MOTOR SERIAL NO.: 158235

MOTOR TAG. NO.: S.F-1125A

TORQUE: OPEN 1.0

CLOSE 1.5

TIME: OPEN 6.0 sec

CLOSE 6.0 sec

DATE 3/28/73

TESTER J.R. Rist

INSPECTOR [Signature]

WITNESSED (CUSTOMER REPRESENTATIVE) (IF REQUIRED)

* Revised: May 26-1978 indicate: DWG, Spec & Description

[Signature]

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B.

VELAN ENGINEERING COMPANIES

770827

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS & VALVES As required under the Provisions of the ASME Nuclear Pump & Valve Code

- Manufactured by VELAN ENGINEERING LTD., 2125 Ward Ave., Montreal Order No. P1-0212-N ITEM: 1
- Manufactured for THE BABCOCK & WILCOX COMPANY Contract No. 025168LS
- Owner THE BABCOCK & WILCOX COMPANY
- Location TOLEDO EDISON
- Valve Identification W5-274-11MS CF-HV5B
(a) Shop Drawing No. P1-0212-N-2 Rev. B Prepared by VELAN ENGINEERING LIMITED
- Design Conditions 700 psi 300 °F Specified by BABCOCK & WILCOX COMPANY
- The Design Complies with Class I II III (circle one)
(Name of Co. & Dep.) VELAN ENGINEERING LTD. (ENGINEERING DEPT.)
- (a) Design Information on file at _____
(b) Design Specification certified by _____
(c) Design Report on file at _____
(d) Design Report certified by _____

Eng. (I)	Province	Reg. No.	Date
VELAN ENGINEERING LTD. (ENGINEERING DEPT.)			
A. K. VELAN	QUEBEC	16463	1965
Eng. (I)	Province	Reg. No.	Date

8. The Materials comply with Class I II III (circle one)

Mark No.	Mat. Spec.	Manufacturer	Body Ser. No.	Body H. Code	Bonnet H.C.	Disc. Valve H.C.
(a) Castings						
1. DISC	STELLITE 6	VESTSHELL INC.				RXI 113-643
2.						
3.						
4.						
(b) Forgings						
1. BODY	ASTM-A-182 316	CANFORGE	1-4 027-1	BW		
2.						
3.						
4.						
(c) Bolting						
1.						
2.						
(d) Other Components						
1. STEM	ASTM-A-461 630	FIRTH BROWN ST.				690706
2.						
3.						
4.						

9. The Manufacture and Examination complies with Class I II III. (circle one)

Shop Hydrostatic Test 2175 psi

Certificate of Authorization No. N1738

We certify the statements of items number 8 and 9 in this data report to be correct

Date Nov 15th 1977 VELAN ENGINEERING LTD. By _____

R. Blomquist
(Manager of Inspection)

CERTIFICATE OF SHOP INSPECTION

VALVE MADE BY VELAN ENGINEERING LIMITED MONTREAL, CANADA
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors of the Province of QUEBEC and employed by the DEPARTMENT OF LABOUR of QUEBEC

have inspected the valve described in this manufacturer's data report on Nov 24 1977 and state that to the best of my knowledge and belief, the manufacturer has constructed this valve in accordance with the ASME Code for Nuclear Pumps and Valves. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date Nov 24 1977
René Bouchette
Inspector's Signature

Commissions _____
National Board of Boiler and Pressure Vessel Inspectors

19820
X

HYDROSTATIC TEST REPORT

VALVES

VELAN P.O. PI-0212-A' CUSTOMER P.O. 02316518

ITEM 1 QUANTITY 1

DWG. * PI-0212-N-2 Rev: B SPEC. * 1025-0469

VALVE DESCRIPTION * 1" Bonnetless Globe valve s/w connections (Stainless Steel) with Limitorque motor operator (SHB-000-2)

VALVES ARE HYDROST. TESTED ACCORDING TO VEL-NDT-640 PROCEDURE.

	<u>SHELL</u>	<u>SEAT</u>	<u>BACKSEAT</u>
TIME	<u>10 min.</u>	<u>5 min.</u>	<u>5</u>
PRESSURE	<u>2175 PSI</u>	<u>1500 PSI</u>	<u>PRESSURE 1500 PSI.</u>
RESULT	<u>0</u>	<u>0</u> LEAKAGE	<u>0</u> LEAKAGE

ALIGNMENT OF VALVE AND OPERATOR SYSTEM SHOP TESTED AND FOUND SATISFACTORY.

MOTOR SERIAL NO.: 158936

MOTOR TAG. NO.: CF-HK5B

TORQUE: OPEN 1.0

CLOSE 1.0

TIME: OPEN 1.2

CLOSE 1.2

DATE 3/28/73

TESTER J. R. Scitajar

INSPECTOR E. J. Maggini

WITNESSED (CUSTOMER REPRESENTATIVE) (IF REQUIRED)

* Revised: May 26-1978 indicate DWG, Spec, Description

Handwritten initials

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