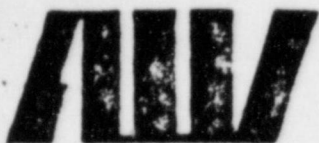


Sgt. 1919



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1310 INDIAN WOOD CIRCLE

MAUMEE, OHIO 43537

DOCUMENT NO. 80278-722

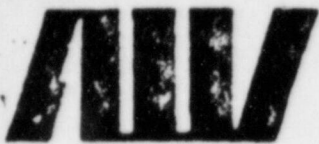
ORIG.
DATE: 2-1-84

ENGINEERING

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1.0 APPLICABILITY

1.1 NVC-41 Rectangular Balancing Dampers

DATA PAGE	SIZE (IN.)	Unit #1 TAG NO.	Unit #2 TAG NO.
<u>3V289V24013</u>			
6	36 x 16	3V141VDA144	3V142VDA144
5	24 x 18	3V141VDA143	3V142VDA143

1.2 NVC-56 Round Balancing Dampers

DATA Page	SIZE (in. dia.)	Unit #1 TAG NO.	Unit #2 TAG NO.
<u>3V289V24013</u>			
1	8	3V141VDA126	3V142VDA126
2	8	3V141VDA127	3V142VDA127
1	8	3V141VDA128	3V142VDA128
1	8	3V141VDA129	3V142VDA129
3	14	3V141VDA130	3V142VDA130
1	8	3V141VDA131	3V142VDA131
3	14	3V141VDA132	3V142VDA132
1	8	3V141VDA133	3V142VDA133
3	14	3V141VDA134	3V142VDA134
3	14	3V141VDA135	3V142VDA135
1	8	3V141VDA136	3V142VDA136
1	8	3V141VDA137	3V142VDA137
1	8	3V141VDA138	3V142VDA138
3	14	3V141VDA139	3V142VDA139
4	10	3V141VDA140	3V142VDA140
3	14	3V141VDA141	3V142VDA141
3	14	3V141VDA142	3V142VDA142



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2.0 RECEIVING, UNLOADING, STORAGE, INSTALLATION & MAINTENANCE INSTRUCTIONS

2.1 Receiving

Upon receipt of the damper(s) at the site, inspect all items for possible shipping damage or missing items, note on Bill of Lading. Also note any hardware or actuator crates that are separate from the dampers for later reference.

2.2 Unloading & Handling of Damper(s)

Sound material handling practices must be utilized when unloading and handling the dampers. Care must be taken so as not to drop, drag, crush or apply excessive twisting, racking, or skewing loads upon any damper frame, linkage or quadrant arm that may cause permanent damage to the damper. When unloading large damper(s) that are not crated, use an appropriate size spreader bar using lifting holes to even the load. In no case should a chain or hook be used inside the damper frame since this could damage and distort blades, seals or frame.

2.3 Storage Instructions

It is recommended that equipment be stored in a dry enclosed area in order to reduce condensation. Do not stack equipment directly on the ground or at elevations where possible flooding may occur. AWV damper shipping crates are not to be stacked. Dampers of similar size if removed from shipping crates are not to be stacked more than four dampers high flange-to-flange. When stacking, dampers must be supported at a minimum of four equidistant places around the frame to insure that warping or bending of the frame does not occur. Where either dampers or damper crates are marked as to direction of damper position in storage, these directions must be followed.



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3.0 INSTALLATION INSTRUCTIONS

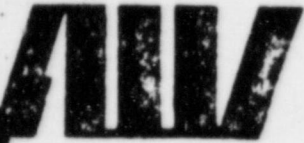
3.1 MOUNTING SURFACE PREPARATION

When the damper is ready to be installed to the duct flange or other mounting surface, the surface should be secure enough to support the entire damper assembly.

This surface must be level and true to receive the damper so that no twist or strain is put on the damper in installation. Construction dirt should be removed from the damper and the mounting surfaces prior to installation. When gaskets are used between the damper and mounting surface, they should be applied to the mounting surface, before the damper is placed into position.

3.2 DAMPER MOUNTING - ROUND & RECTANGULAR DAMPERS

- 3.2.1 Dampers are normally bolted in place. See the specific damper drawings for mounting hole layout. Lift damper in place using lifting holes with an appropriate size spreader bar to even the load. A sling may be used around the axles to lift round dampers. Take care not to twist or rack the frame. Install the dampers per drawings with respect to blade orientation and air flow. Dampers must be installed square and plumb.
- 3.2.2 Lift damper into place.
- 3.2.3 Install mounting bolts. Bolt heads should be inserted from damper flange side for dampers with external linkage.
- 3.2.4 Cycle damper to full open and return to verify that blades are not scraping on duct and that mounting bolts are not interfering with linkage.



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4.0 GENERAL HOUSEKEEPING

In general this unit must be kept clean and free from foreign matter that may impede normal movement, and seating of blades. A cleaning schedule should be established and is entirely dependent upon the environment into which the damper is placed. The damper is basically maintenance free.

5.0 BEARING & LINKAGE MAINTENANCE

Oil impregnated bronze sleeve bearings are normally maintenance free.

Lubricate with light oil as required to provide free movement.

6.0 SPARE PARTS

6.1 General

- 6.1.1 Prices are firm for shipment providing AWV receives a formal P.O. on or before 2-10-85.
- 6.1.2 The validity period of the quotation for order placement shall be 90 days.
- 6.1.3 AWV standard payment terms are net 100% of equipment values (due) payable within 30 days from date of shipment of material and/or date of invoice.
- 6.1.4 Packaging shall be in accordance with N45.2.2 level C.
- 6.1.5 Prices quoted herein are FOB Shipping point Waldron, MI Freight will be prepaid and added to the invoice.
- 6.1.6 Minimum order of \$125.00 is required.
- 6.1.7 The recommended spare parts listed herein are based on the following percentage basis for each damper model rounded to the next whole quantity, by item number.

<u>Damper Qty.</u>	<u>% Spare Parts</u>
1-5	100
6-10	30
11-50	15
51 & greater	10



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6.1.8 Spare Parts Storage

Generally, shelf life of each component having a limited shelf life varies relative to the storage conditions. For optional shelf life the following conditions are suggested:

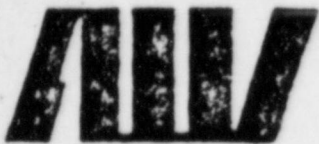
1. Ambient temperature range; 40 °F to 104 °F
2. Humidity range: 1 to 30%
3. Closed container
4. Exclusion of contamination
5. Exclusion of light (particularly sun light)
6. Exclusion of ozone generating electrical devices.
7. Exclusion of radiation

6.2 Recommended Spare Parts (Quantities based on both unit 1 & 2)

6.2.1 NVC-41; AWV drawing series 80278-006 unit 1 80279-006 unit 2

<u>B/M No.</u>	<u>Total Qty.</u>	<u>Part Description</u>	<u>Shelf Life (yrs)</u>	<u>Lead Time (wks)</u>	<u>Unit Price</u>
10	16	3/4 dia. OIB flanged sleeve bearing, AWV MCL #6119	5	5	\$ 2.00
11	16	3/4 nominal dia. stainless steel thrust washer - .062 thick	N/A	5	.90
18,23	8	Linkage pivot assembly consisting of: SMP-1 stainless steel pin MCL #6580 1/4 OIB flanged brg. FB-46-3 (2) S.S. flatwashers (2) Plated stl. cotterpins	N/A 5 N/A N/A	5	18.00

6.2.2 NVC-56; AWV drawing series 80278-005 unit 1 80279-005 unit 2



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<u>B/M No.</u>	<u>Total Qty.</u>	<u>Part Description</u>	<u>Shelf Life (yrs)</u>	<u>Lead Time (wks)</u>	<u>Unit Price</u>
10	68	3/4 dia. OIB flanged sleeve bearing AWV MCL #6119	5	5	\$ 2.00
11	68	3/4 nominal dia. stainless steel thrust washer - .062 thick	N/A	5	.90

7.0 APPLICABLE DRAWINGS

7.1 NVC-41

80278-006-000
80278-006-201
80278-006-902
80278-006-903

80279-006-902
80279-006-903

7.2 NVC-56

80278-005-000
80278-005-201
80278-005-902

80279-005-902

7.3 Manual Quadrant (common to all dampers)

80278-006-002

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DIMENSIONS													
A	B	C	D	E	F	G	H	J	K	L	M	R	S
144	A	6	1	V	H	1	X	1	2	3/4	100	NA	13/NA
143	A	5	1	V	H	1	X	1	2	3/4	75	NA	13/NA

DATA SHEET 3/28/92 4018 54ET

TAG NO. 3141VDA

QUANTITY

MTG. POSITION

FLOW DIRECTION

NO. OF PANELS

BLADE QUANTITY

PER PANEL

AXLE DIA.

ESTIMATED DAMPER ASSEMBLY WEIGHT (LBS)

PLANT FACTOR (ANY USE ONLY)

U	V	W	X	Y	AA	BB	DD
6	7 3/4	6 3/8	1	7 1/4	45	24	13 3/8
6	6 3/4	6 7/8	1	8 1/4	33	25	15 5/8

HOUSTON LIGHTING & POWER CO.
SOUTH TEXAS PROJECT
NUCLEAR POWER PLANT

UNIT 1

BECHTEL ENERGY CORPORATION
JOB NO. 14926-001
P.O. NO. 35-1197-4168
SAFETY CLASS DAMPERS
L.C. ELDORIDGE SALES CO., INC.
AMV PROD. NO. 80278

AWW AMERICAN WARMING and Ventilating Inc. 1210 INDIAN WOOD STREET HOUSTON, TEXAS

DIMENSION SCHEDULE FOR NVC-41 OPPOSED BLADE DAMPER

DATE 6/17/93

BY 47ME

CHK 47ME

APPD 47ME

REV 47ME

80278-006-902 A

HOUSTON LIGHTING & POWER CO.
SOUTH TEXAS PROJECT
NUCLEAR POWER PLANT
UNIT 1
BRECHTEL ENERGY CORPORATION
JOB NO. 14276-001
P. O. NO. 33-1197-4168
SAFETY CLASS DAMPEPS
L.L.C. ELDRIDGE SALES CO., INC.
P.O. BOX NO. 80278

AMV american warming
and ventilating inc.
115 HEDMAN ROAD CINCINNATI, OH 45240-1099

**DIMENSION SCHEDULE FOR
HVC-41 OPPOSED BLADE DAMPER**

CHRG. BY JAN 27/1983	DATE 6/17/83	DEPT. NO. 90278-006-902	REV A
APPRO. BY 6/13/83	DATE 6/13/83	REV A	

A	APP'D BY: SGT. M. R. FOR CIB, 15B	DATE	TIME	APPRO	INITIALS

SAFETY CLASS DAMPERS
L.C. ELDRIDGE SALES CO., INC.
AMV PROD. NO. 80278

DATE	80 PARTS	ECMB
2293	050	
FOR AMV USE ONLY		

8/28/83	APR 1978	NOV 11/1982	REV
CHN	OWG: KD		
DATE: 7/17/83		80278-006-909 A	

TAG NO. SV142VDA	DATA SHEET SV289V24013 SHEET	QUANTITY	MTG. POSITION	FLOW DIRECTION	NO. OF PANELS (W X H)	BLADE QUANTITY PER PANEL	AXLE DIA.	ESTIMATED DAMPER ASSEMBLY WEIGHT(LBS)	PLANT FACTOR (AWV USE ONLY)	DIMENSIONS																							
										A	B	C	D	E	F	G	H	J	K	L	M	R	S	T	U	V	W	X	Y	AA	BB	D	
144	Δ6	1	V	H	1X1	2	3/4	100	19/NA	36	16	2	10	1	4	5	6	6	1	6	7/16	3/4	-	3	6	7 3/4	6 3/8	1	7 1/4	45	24	13 5/8	
143	Δ5	1	V	H	1X1	2	3/4	75	19/NA	24	18	2	10	1	4	3	6	4	2	6	7/16	3/4	-	3	6	8 3/4	6 7/8	1	8 1/4	33	25	15 1/8	

DATE 030

FOR AWV USE ONLY

HOUSTON LIGHTING & POWER CO.
SOUTH TEXAS PROJECT
NUCLEAR POWER PLANT
UNIT 2
BECHTEL ENERGY CORPORATION
JOB NO. 14926-001
P.O. NO. 35-1197- 8168
SAFETY CLASS DAMPERS
L.C. ELDRIDGE SALES CO., INC.
AWV PROD. NO. 80279

AWV american warning
and ventilating inc
1315 INDIAN ROAD CLEVELAND, OHIO

DIMENSION SCHEDULE FOR
NVC-41 OPPOSED BLADE DAMPER

CHKD *[Signature]*
DRN *[Signature]*
DATE 6/17/83

APP. BY *[Signature]*
DWG. NO. 80279-006-902
DATE 6/17/83

	american warming and ventilating inc. BIRMINGHAM, OHIO	
	1115 INDIAN WOOD CIRCLE	
PERFORMANCE SCHEDULE FOR MVC-41 OPPOSED BLADE DAMPER		
ORDER NO. <i>9806093</i>	DATE <i>7/27/83</i>	DIVISION <i>ME</i>
SPEC. NO. <i>9806093</i>	DRAWING NO. <i>9806093</i>	REV. <i>5/1</i>
PROJECT NO. <i>9806093</i>		PROJECT NAME <i>9806093</i>

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SPECIFICATIONS

RINGS: 1-1/2 X 1-1/2 X 3/16 THICK POLLED ASTM-A36 STEEL ANGLE

SLEEVE: 10 GA. ASTM-A569 CARBON STEEL (1)

BLADES: 10 GA. ASTM-A526 GALVANIZED STEEL (3) WELDED TO AXLE

AXLES:  3/4" DIA. ASTM A582 TYPE 303 STAINLESS STEEL FULL LENGTH 

BEARINGS:  OIL IMPREGNATED BRONZE SLEEVE  ASTM B438 GR 1 TYPE II
WITH ASTM A240 STAINLESS TIFEL THRUST WASHERS 

STOPS: 3/8" PLATED ROLLED SQUARE BAR (7) WELDED TO INSIDE OF SLEEVE

FINISH: MILL ON GALV., PLATED OR CORROSION RESISTANT MATERIALS.
CARRON STEEL MATERIALS TO BE HOT DIP GALVANIZED ASTM-A123
AFTER ASSEMBLY. WELDED GALV. STEEL AREAS TO RECEIVE
TOUCH - UP WITH GALVANOX PAINT.

LIFT
LIFT: 1/2" DIA. HOLE PUNCHED IN A 1/4 X 1 AISI-M1020/ASTM-A76
BAR (1) WELDED BETWEEN FLANGES AT TOP OF DAMPER.

1. TITATOR: MANUAL DIAPYCNANT (REF. DWG. NO. 80278-006-002)

NOTES

1. SEE SCHED. 80278/79-05-902, FOR DAMPER DESIGN CRITERIA.
2. EACH DAMPER TO HAVE A STAINLESS STEEL I.D. TAG WITH 1/8" HIGH CHARACTERS AFFIXED TO 10 GA. ASTM-A569 STEEL MOUNTING PLATE, WITH THE FOLLOWING INFORMATION: P.O. # PER SCHEDULE, DAMPER TAG # PER SCHEDULE, DAMPER TYPE NVC-56, MANUFACTURER: AMERICAN WARMING & VENTILATING, NAME OF COMPONENT: BUTTERFLY DAMPER, AND AMV S.O. #
3. ALL WELDING WILL BE PERFORMED IN ACCORDANCE WITH AMV STANDARD WELDING DRAWING NO. 10151, UNLESS OTHERWISE SPECIFIED.
4. TESTING: EACH DAMPER TO BE CYCLE TESTED 25 TIMES. SEE SCHEDULE FOR DAMPERS TO BE LEAKAGE & DEFLECTION TESTED. ALL TESTING IS PER TEST PROCEDURE 80278-702.
5. QUALITY ASSURANCE PROGRAM WILL BE FURNISHED FOR DAMPER ASSEMBLIES AS DELINEATED AND DEFINED IN THE AMV O.A. MANUAL.
6. CHEMICAL & PHYSICAL CERTIFICATES WILL BE FURNISHED FOR THE FRAME, BLADES AND AXLES ONLY WHICH ARE CONSIDERED THE HIGH STRESS DAMPER ASSEMBLY ITEMS BY AMV.
7. ACTUATOR BLADE IS CLOCKWISE TO CLOSE AS VIEWED FROM RIGHT HAND FLOW ENTERING SIDE.
8. SEISMIC QUALIFICATIONS WILL BE FURNISHED FOR DAMPER ASSEMBLY.
9. PLATING CONFORMS TO ASTM-A165 TYPE OS FOR CADMIUM OR ASTM-A164 TYPE LG FOR ZINC.
10. FLOW ARROWS ARE USED FOR REFERENCING QUADRANT LOCATION ONLY. FLOW MAY BE IN EITHER DIRECTION.
11. MAX. INTEGRATED RADIATION EXPOSURE = 3.5×10^4 RADS
ABNORMAL RADIATION EXPOSURE = 1.4×10^3 RADS.

2233 OZO 100 DATE S.O. PARTS PLT ECNS				HOUSTON & LIGHTING & POWER CO. SOUTH TEXAS PROJECT NUCLEAR POWER PLANT UNITS 1 & 2 BECHTEL ENERGY CORPORATION JOB NO. 14926-001 P.O. 35-1197-4168 & 35-1197-8168 SAFETY CLASS DAMPERS L.C. ELDRIDGE SALES CO., INC. AMV PROD. #80278/80279				B REV. AXLE TO STATE- LESS; BRG TO OIB; ADD TO NOTE 11				A DELETE SEALS & COMPANION ANGLES REV. NOTES 1, 4 & 7 REV. STOP & FINISH SPEC., ADD NOTE 10 & 11				A REVISION				DATE CHK APPD. QA				DATE 4/6/83				80278-005-201 REV B			
								REV. AXLE TO STATE- LESS; BRG TO OIB; ADD TO NOTE 11 DATE CHK APPD. QA				DATE 4/6/83				80278-005-201 REV B															

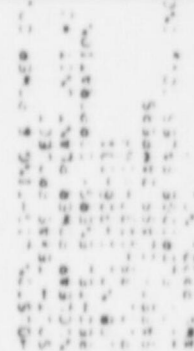
TAG NO.		DATA PAGE		SHEET		QUANTITY		MTG. POSITION		FLOW DIRECTION		EST. DAMPER (WEIGHT IN LBS.)		PLANT FACTOR (AMV USE ONLY)		DIMENSIONS								DESIGN PRESSURE (INCHES M.G.)		MAX. FLOW (SCFM)		MAX. VELOCITY (FPM)		LEAKAGE (SCFM) @ DESIGN ΔP & 70°F		PRESS. DROP (IN. W.G.) @ MAX. VEL. & 70°F PER APCA 500, FIG. 5, 3		MAX. TORQUE (IN. - LBS)		MANUAL QUADRANT LOCATION		ORIENTATION		TEST REQUIRED? FOR LEAKAGE AND SELECTION	
B	E	F	V	AA	BB	CC	DD																																		
126	Δ 1	1	H V	30	15 NA	8	9 3/4	4	7 3/4	14	Δ 19	Δ 5 5/8	7 1/2			2.5	100	286	95	.03	15	RH	ENT	YES																	
127	Δ 2			30	15 NA	8	9 3/4	4	7 3/4	14	Δ 1	Δ 5 5/8	7 1/2				200	573	95	.03	15			NO																	
128	Δ 1			30	15 NA	8	9 3/4	4	7 3/4	14	Δ	Δ 5 5/8	7 1/2				100	286	95	.03	15			NO																	
129	Δ 1			30	15 NA	8	9 3/4	4	7 3/4	14	Δ	Δ 5 5/8	7 1/2				100	286	95	.03	15			NO																	
130	Δ 3			45	20 NA	14	15 3/4	8	13 3/4	20	Δ	Δ 8 5/8	10 1/2				1200	1123	101	.04	20			YES																	
131	Δ 1			30	15 NA	8	9 3/4	4	7 3/4	14	Δ	Δ 5 5/8	7 1/2				100	286	95	.03	15			NO																	
132	Δ 3			45	20 NA	14	15 3/4	8	13 3/4	20	Δ	Δ 8 5/8	10 1/2				1200	1123	101	.04	20			NO																	
133	Δ 1			30	15 NA	8	9 3/4	4	7 3/4	14	Δ	Δ 5 5/8	7 1/2				100	286	95	.03	15			NO																	
134	Δ 3			45	20 NA	14	15 3/4	8	13 3/4	20	Δ	Δ 8 5/8	10 1/2				1200	1123	101	.04	20			NO																	
135	Δ 3			45	20 NA	14	15 3/4	8	13 3/4	20	Δ	Δ 8 5/8	10 1/2				1200	1123	101	.04	20			NO																	
136	Δ 1			30	15 NA	8	9 3/4	4	7 3/4	14	Δ	Δ 5 5/8	7 1/2				100	286	95	.03	15			NO																	
137	Δ 1			30	15 NA	8	9 3/4	4	7 3/4	14	Δ	Δ 5 5/8	7 1/2				100	286	95	.03	15			NO																	
138	Δ 1			30	15 NA	8	9 3/4	4	7 3/4	14	Δ	Δ 5 5/8	7 1/2				100	286	95	.03	15			NO																	
139	Δ 3			45	20 NA	14	15 3/4	8	13 3/4	20	Δ	Δ 8 5/8	10 1/2				1200	1123	101	.04	20			NO																	
140	Δ 4			35	17 NA	10	11 3/4	6	9 3/4	16	Δ	Δ 6 3/8	8 1/2				100	183	95	.03	17			NO																	
141	Δ 3			45	20 NA	14	15 3/4	8	13 3/4	20	Δ	Δ 8 5/8	10 1/2				1200	1123	101	.04	20			NO																	
142	Δ 3	1	H V	45	20 NA	14	15 3/4	8	13 3/4	20	Δ 19	Δ 8 5/8	10 1/2			2.5	1200	1123	101	.04	20	RH	ENT	NO																	

ABBREVIATIONS

V = VERTICAL
H = HORIZONTAL
ENT = ENTER

[illegible]

REACTOR CONTAINMENT
BUILDING, SAFETY JAIL •



MTV american warming
and ventilating inc.

SCHEDULE FOR NVC-56
ROUND HEAVY DUTY DAMPER

9/18/19	10/1/19
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DATE	6.8.1
AM	0.00
DATE	6.8.1

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14926-8268-00229-AVA

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• PLANT UTILITIES		
• PLANT DESIGN		
• CONTROL SYSTEMS		
• ELECTRICAL		
• WIRING		
• CONDUIT		
• MQS		
• PAINTING & COATINGS		
• CIVIL/STRUCTURAL		
• NUCLEAR		
• STRESS		
• ARCHITECTURAL		
• STARTUP		
• CONSTRUCTION <i>M. Hammond</i>	☒	
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• CLIENT		

IDENTIFYING TITLE OF THIS DOCUMENT
(L 278-735, N/R)

PKG. # 9524

14926-4168-00243-AVA
Bechtel Log No.
14926-8168-00229-AVA

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Permission to proceed does not constitute acceptance or approval of design details, calculations, analyses, test methods or materials developed or selected by the supplier and does not relieve supplier from full compliance with contractual obligations.	
DATE RECEIVED <i>10-8-84</i>	Signed <i>V. Chenev</i>
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