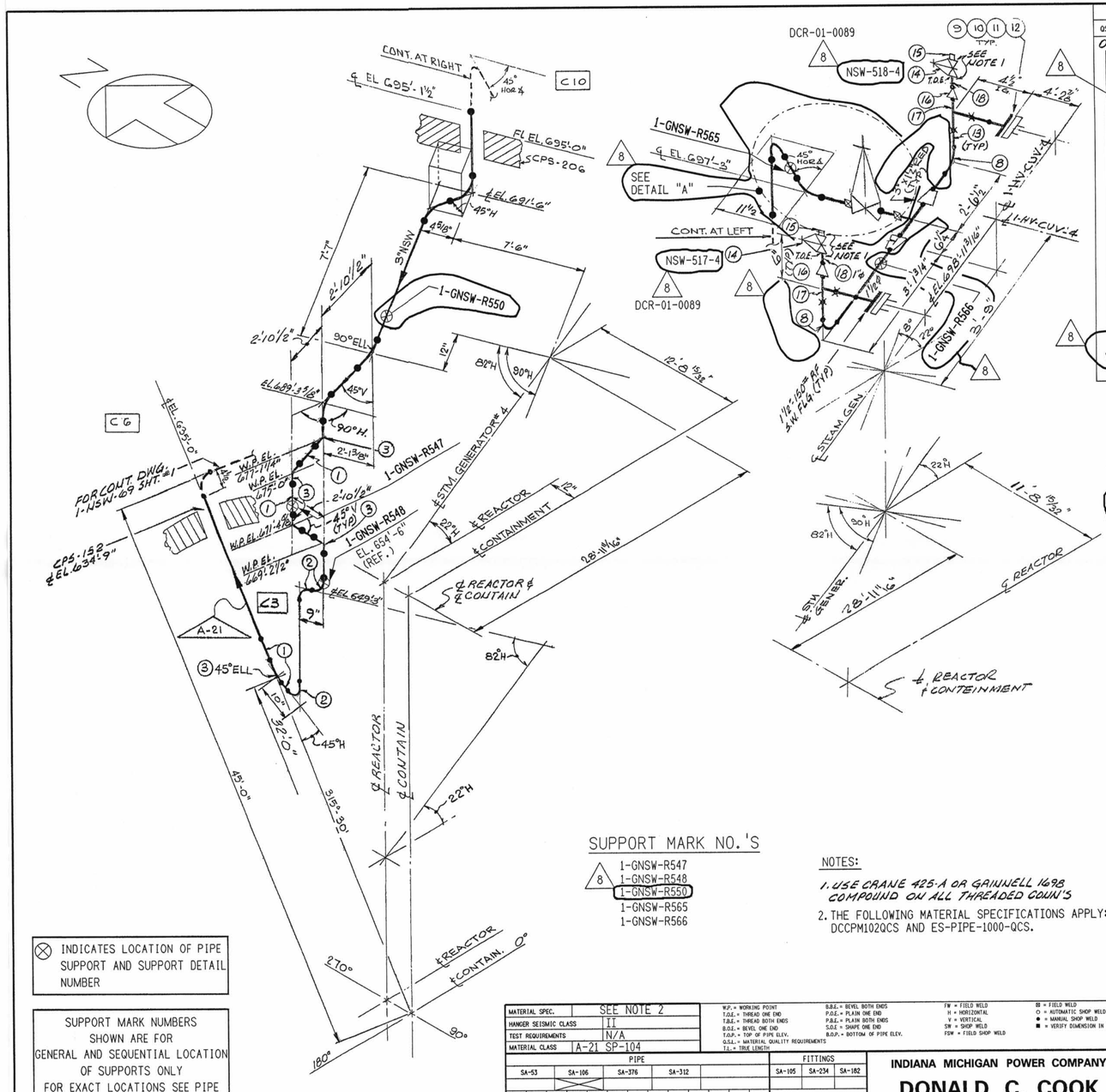

D-56B

QSL	ITEM	QTY.	SIZE	DESCRIPTION	TAG No. OR ASTM MATL.	
01	1	AS REQ'D	3"	PIPE, SMLS, CS, SCH. 40	A-106 GR. B	
	2	3	3"	90° LR ELL, BW, CS, SCH. 40	A-234 GR. WPB	
	3	5	3"	45° ELL, BW, CS, SCH. 40	A-234 GR. WPB	
	4	1	3"	125# C.I. FLG'D GATE VALVE	12GF03RZ	DELETED
	5	2	3"	1/16" THK. 150# FF GASK. COMP ASBESTOS-RUBBER BONDED		DELETED
	6	8	5/8" ø	x 3" LG. HEX. HD MACH BOLTS	A-307 GR. B	DELETED
	7	8	5/8" ø	HEAVY HEX. NUTS CL. 2 TOL	A-307 GR. B	DELETED
	8	2	1½"	3000# C S SW 90° ELL	A181 GR I or II	
	9	2	1½"	150# RF SW FLG	A181 GR I or II	
	10	2	1½"	1/16" THK. 150# FF GASK. COMP ASBESTOS-RUBBER BONDED		
	11	8	½" ø	x 2½" LG. HEX. HD MACH. BOLT	A-193 GR. B7	
	12	8	½" ø	HEAVY HEX. HD. NUT CL 2 TOL	A-194 GR. 2H	
	13	AS REQ'D	1½"	SMLS. C S. PIPE SCH 80	A 106 GR B	
	14	2	1"	200# THD. BRONZE GLOBE VA.	Y-100T23	
	15	2	1"	3000# CS THD. PLUG	A-181 GR. I or II	
	16	2	1½"x1"	SW RED. INSERT		
	17	2	1½"	SW TEE		
	18	AS REQ'D	1"	PIPE (SCH 80) SMLS CS	A-106 GR. B	
	19	1	3"	300# CAST STEEL GATE VALVE, BW	30GE03A0	
	20	AS REQ'D	3"	PIPE, (SCH 40) SMLS., C.S.	SA-106 GR B	

1-NSW-69 (Sheet 2 of 2)
Upper Containment Ventilation
Unit 4 Return Line

SUPPORT MARK NO.'S

8
1-GNSW-R547
1-GNSW-R548
1-GNSW-R550
1-GNSW-R565
1-GNSW-R566

NOTES:

1. USE CRANE 425-A OR GRINNELL 1698 COMPOUND ON ALL THREADED CONN'S
2. THE FOLLOWING MATERIAL SPECIFICATIONS APPLY: DCCPM102QCS AND ES-PIPE-1000-QCS.

⊗ INDICATES LOCATION OF PIPE SUPPORT AND SUPPORT DETAIL NUMBER

SUPPORT MARK NUMBERS SHOWN ARE FOR GENERAL AND SEQUENTIAL LOCATION OF SUPPORTS ONLY FOR EXACT LOCATIONS SEE PIPE SUPPORT DETAIL

REV.	DATE	DESCRIPTION	FIELD STATUS
8	4-11-01	REVISED: VA DESIGN NO'S. TO UNIQUE NO'S., EXCEPT ON BOM, PER DCR-01-0089. ADDED: DETAIL "A"; ITEMS 19 & 20 AND TO BOM; PIPE SUPPORT 1-GNSW-R550, DIM'S 22" T.L. & 2'-0¾". RELOCATED: PIPE SUPPORT 1-GNSW-R566. REVISED: DIM'S 6⅛" TO 7⅜" & 8⅛" TO 11⅛". DELETED: ITEMS 4-7; DIM'S MIN (TYP), 10½", 8⅛" & 6⅛" PER 1-DCP-4845 REV 0. GM/CD/GNN/WCM	NO FIELD ACTION REQ'D.

MATERIAL SPEC.	SEE NOTE 2
HANGER SEISMIC CLASS	II
TEST REQUIREMENTS	N/A
MATERIAL CLASS	A-21 SP-104

W.P. = WORKING POINT
T.O.E. = THREAD ONE END
T.B.E. = THREAD BOTH ENDS
B.O.E. = BEVEL ONE END
T.O.P. = TOP OF PIPE ELEV.
Q.S.L. = MATERIAL QUALITY REQUIREMENTS
T.L. = TRUE LENGTH

B.B.E. = BEVEL BOTH ENDS
P.O.E. = PLAIN ONE END
P.B.E. = PLAIN BOTH ENDS
S.O.E. = SHAPE ONE END
B.O.P. = BOTTOM OF PIPE ELEV.

FW = FIELD WELD
H = HORIZONTAL
V = VERTICAL
SW = SHOP WELD
FSW = FIELD SHOP WELD

⊠ = FIELD WELD
○ = AUTOMATIC SHOP WELD
● = MANUAL SHOP WELD
■ = VERIFY DIMENSION IN FIELD

PIPE															FITTINGS		
SA-53		SA-106		SA-376		SA-312									SA-105	SA-234	SA-182
		X															
STD.	XY	XXY	10	20	30	40	60	80	100	120	140	160					
						X		X							SA-403	SA-181	
SMLS.	WLDD.	FOR AS INSTALLED MATERIAL - SEE B.O.M. ABOVE															
X																	

INDIANA MICHIGAN POWER COMPANY
DONALD C. COOK
NUCLEAR PLANT
BRIDGMAN MICHIGAN

POUR/ZONE No. 1C3
FLOW DIAGRAM 1-5114A
Q.S.L. 01

FOR SIGNATURE RECORD SEE MICROFILM COPY OF ISO. 1-NSW-69-SH2 REV 6

DWN:	DATE:	CONTAINMENT BLDG.
CKD:	DATE:	DWG. No.
SQ. LDR:	DATE:	1-NSW-69
REF. DWG. 1-5585A 1-5740, 1-5744		SH 2 REV 8

AEP AMERICAN ELECTRIC POWER
AEP SERVICE CORP. 1 RIVERSIDE PLAZA COLUMBUS, OH 43215

1-NSW-69-SH2-8 GAN 4-18-01

FILENAME: 1-nsw-69-sh2.008