

PLAN
VALVE PIT 241-SY-A
H-2-37780

INSTALLATION/REMOVAL NOTES:

JUMPER L12A SHOULD BE IN PLACE BEFORE L12-L14(F)-(H) L15-M-L16-N (NOT MANDATORY). L12 JUMPER MUST BE IN PLACE BEFORE L11-F-G OR L19-H INSTALLATION. REVERSE THE ORDER FOR REMOVAL.

JUMPER L12A
INSTALLATION:
LOWER ONTO NOZZLE "L12A" UNTIL DEAD WEIGHT LEG CONTACTS FLOOR. HORIZONTAL PIPE LEG SHOULD BE PARALLEL TO FLOOR BEFORE FINAL TORQUEING OF L12A.
REMOVAL:
NO SPECIAL INSTRUCTIONS.

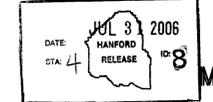
JUMPER L12-L14(F)-(H)-L15-M-L16-N
INSTALLATION:
LOWER ASSEMBLY H-2-822293-1 (NOT INCLUDING SUB-ASSEMBLIES H-2-822293-3, JUMPER L15-M AND H-2-822293-4, JUMPER L16-N) ONTO NOZZLE "L12", THEN ORIENTATE THE VERTICAL CONNECTOR "L14" OVER ITS NOZZLE. TORQUEING SEQUENCE SHOULD BE 1) L12 AND 2) L14. LOWER SUB-ASSEMBLY H-2-822293-3 ONTO NOZZLES L15 AND M. TORQUEING SEQUENCE SHOULD BE 1) L15 AND 2) M. LOWER SUB-ASSEMBLY H-2-822293-4 ONTO NOZZLES L16 AND N. TORQUEING SEQUENCE SHOULD BE 1) L16 AND 2) N.

REMOVAL:
KICK-OFF SEQUENCE SHOULD BE 1) N 2) L16. REMOVE JUMPER SUB-ASSEMBLY H-2-822293-4.
KICK-OFF SEQUENCE SHOULD BE 1) M 2) L15. REMOVE JUMPER SUB-ASSEMBLY H-2-822293-3.
KICK-OFF SEQUENCE FOR JUMPER ASSEMBLY H-2-822293-1 SHOULD BE 1) L14 AND 2) L12.
NOTE: JUMPERS AT NOZZLES F AND H SHOULD HAVE BEEN PREVIOUSLY REMOVED.

JUMPER L11-F-G
INSTALLATION:
JUMPER HAS BEEN BALANCED WITH A SLIGHT ANGLE TO ALLOW "L11" NOZZLE TO CONTACT FIRST AND LOWER ONTO NOZZLE "F". TORQUEING SEQUENCE SHOULD BE 1) L11, 2) F, 3) L11.
REMOVAL:
KICK-OFF SEQUENCE SHOULD BE 1) F, 2) L11. ROTATE JUMPER SO CONNECTOR "F" IS FREE OF NOZZLE, BEFORE ATTEMPTING TO LIFT AND REMOVE. NOTE: CONNECTOR AT NOZZLE "G" SHOULD HAVE BEEN REMOVED.

JUMPER L19-H
INSTALLATION:
TORQUEING SEQUENCE SHOULD BE 1) L19, 2) H, AND 3) L19.
REMOVAL:
KICK-OFF SEQUENCE SHOULD BE 1) L19, 2) H, AND 3) L19.

- NOTES:** (UNLESS OTHERWISE SPECIFIED)
- HORIZONTAL AND VERTICAL DUST COVERS SHOWN IN ARRANGEMENT ARE TO BE SUPPLIED, AS REQUIRED BY CUSTOMER.
 - SEE H-2-822296 AND H-2-104024 FOR PIT COVER DETAILS AND PAINTING DIAGRAM.
 - FOR VALVE EXTENSION HANDLE SEE H-2-90172 ASSEMBLY 2, TYPE A, 2-WAY VALVE, WITH LOCKABLE TABS. PART NO. 14 (VALVE IDENT PL) SHALL BE STAINLESS STEEL - ASTM A 240.
 - FOR VALVE EXTENSION HANDLE SEE H-2-90172 ASSEMBLY 2, TYPE B, 3-WAY VALVE FLOW PATTERN (3). 180° ROTATION. PART NO. 14 (VALVE IDENT PL) SHALL BE STAINLESS STEEL - ASTM A 240. TABS ON VALVE HANDLE SKIRTS ARE NOT REQUIRED FOR VALVE LOCATIONS V228, V227, V222, DUE TO SY-A VALVE PIT CONFIGURATION.
 - NOT USED
 - THE NEW REMOTE VERTICAL BLANK CONNECTOR ASSEMBLY (SAFETY CLASS 3) CONSISTS OF A 2" INTEGRAL SEAL BLOCK JUMPER CONNECTOR ASSEMBLY, SEE DRAWING H-2-821404-010 (ASSY, 2" CONN, BLANK, VERT W/VITON O-RING) WITH A STANDARD FOLDING BAIL ASSEMBLY INSTALLED, SEE DWG H-2-90160-2. FABRICATION AND TESTING (TEST PRESSURE AT 250 PSIG) SHALL BE IN ACCORDANCE WITH CONSTRUCTION SPECIFICATION W-058-C2, SECTION 15493, APPENDIX A.
 - ABBREVIATIONS: SHALL BE IN ACCORDANCE WITH ASME Y1.1.
 - MATERIALS, FABRICATION, INSPECTION, CLEANING, PAINTING, EXAMINATION, AND TESTING SHALL BE IN ACCORDANCE WITH CONSTRUCTION SPECIFICATION W-058-C2, SECTION 15493.
 - ALL CALCULATIONS REQUIRED TO SUPPORT PROJECT W-058 JUMPER DESIGN CRITICALS, JUMPER BALANCING, AND PIPE STRESS ANALYSES ARE IDENTIFIED BY CALCULATION PACKAGE NUMBERS W058-P-019, -025, -026, AND W058-P-028.
 - NOTE, IN LIEU OF USING PAINT AS SPECIFIED ON DRAWING H-2-90172 (NOTE 1) FOR PAINTING NEW VALVE EXTENSION HANDLE ASSEMBLIES, SEE THE CONSTRUCTION SPECIFICATION FOR TYPE OF PAINT REQUIRED FOR PAINTING ALL EXPOSED FERROUS METAL SURFACES.
 - USE 3/C #16 AWG CABLE, WITH RADIATION RESISTANT JACKET, ROCKBESTOS FIREWALL III CONTROL CABLE.
 - NOT USED
 - DELETED
 - DELETED
 - REMOVE EXISTING JUMPER SUPPORT (DETAIL 25, H-2-37715, ZONE D3) AS REQUIRED TO PROVIDE CLEARANCE FOR NEW JUMPER INSTALLATION. USE UNISTRUT CLAMP AND CHANNEL, AS REQUIRED, TO MODIFY EXISTING JUMPERS FOR JUMPER SUPPORT (H-2-46231 AND H-2-37818) FOR REINSTALLATION.
 - FOR JUMPER ASSEMBLY BETWEEN NOZZLE H AND L-19 SEE H-2-822295. NOZZLE G TO L3 SEE H-2-93774.
 - 17 FLEX CONNECTION INTENDED FOR OVERGROUND TRANSFER LINE.
 - NOTES 8, 9, 10, AND 11 ARE NOT APPLICABLE TO JUMPER ASSEMBLY H-2-822293.



DWG NO	TITLE	REF NUMBER	TITLE	REFERENCES
H-2-821404	2" ISB JUMPER CONN ASSY			
H-2-90160	STANDARD FOLDING BAIL			
W-058-C2	W-058-C2 CON SPEC			
H-2-822200	DRAWING LIST			
H-2-90172	STD VALVE EXT HANDLE			
H-2-37780	JUMPER ARRANGEMENT			

NO	DATE	DESCRIPTION	BY	CHK	APP
6	07/06	REV PER ECN-675633 CHANGE ON SHEET 2 NOTES	AWK		

NAME: WM ZICKUHR DATE: 8-28-05 COMPANY:		U.S. DEPARTMENT OF ENERGY Office of River Protection
NAME: KR HAYASE DATE: 8-28-05 COMPANY:		
NAME: J.R. COLLINS DATE: 8-28-05 COMPANY:		JUMPER ARRANGEMENT VALVE PIT 241-SY-A
NAME: CV KATNIK FOR WHC DATE: 8-28-05 COMPANY:		
SHEET: F SCALE: 1"=1'-0" DATE: 8517	REV: 6 INDEX NO: 8404 DRAWING NO: 0402	SHEET: 1 OF 3 DATE: 612961

H-2-822290
REV 6