TAG NUMBER	VALVE TYPE	ACUTATOR POWER SUPPLY	VALVE SIZE (INCHES)	PROCESS FLUID	MAXIMUM OPERATING FLOW (GPM UNLESS NOTED)	MAXIMUM OPERATING DP (PSIG)	SERVICE	P&ID NO. I94100	CONTROL FEATURE/ MODIFICATIONS/ SUPPLEMENTS
W2-FV-101	V500	120-VOLT, SINGLE-PHASE	3	W2	700	80	O/C	1-F-0003	
W2-FV-100	V941	120-VOLT, SINGLE-PHASE	2	W2	370	80	O/C	1-F-0003	C
W2-FV-201	V500	120-VOLT, SINGLE-PHASE	3	W2	700	80	O/C	1-F-0004	
W2-FV-200	V941	120-VOLT, SINGLE-PHASE	2	W2	370	80	O/C	1-F-0004	C
HDWK-FV-200	V405	480-VOLT, THREE-PHASE	4	SW/D	200	30	O/C	1-F-0004	
HDWK-FV-300-C	V405	480-VOLT, THREE-PHASE	6	GR	500	25	O/C	1-F-0005	
HDWK-FV-300-B	V405	480-VOLT, THREE-PHASE	6	GR	500	25	O/C	1-F-0005	
HDWK-FV-300-A	V405	480-VOLT, THREE-PHASE	6	GR	500	25	O/C	1-F-0005	
HDWK-FV-252	V941	120-VOLT, SINGLE-PHASE	1	SW/D	50	30	O/C	1-F-0006	C
HDWK-FCV-251	PLUNGER VALVE (40 27 02.02)	480-VOLT, THREE-PHASE	14	SW/D	3500	30	M	1-F-0006	
CHEM-FV-530-B	V337	120-VOLT, SINGLE-PHASE	1	SU	15 GPH	5	O/C	1-F-0007	B
CHEM-FV-530-A	V337	120-VOLT, SINGLE-PHASE	1	SU	16 GPH	5	O/C	1-F-0007	B
FLTR-FV-606-A	V505	480-VOLT, THREE-PHASE	8	FE	665	9	O/C	2-F-0006	
FLTR-FV-605-A	V505	480-VOLT, THREE-PHASE	8	FTW	665	9	O/C	2-F-0006	
FLTR-FV-604-A	V505	480-VOLT, THREE-PHASE	6	FE/FTW	665	9	O/C	2-F-0006	C
FLTR-FV-603-A	V505	480-VOLT, THREE-PHASE	20	BWS	4680	23	O/C	2-F-0006	
FLTR-FV-602-A	V505	480-VOLT, THREE-PHASE	8	BWA	1040 SCFM	11	O/C	2-F-0006	
FLTR-FV-601-A	V505	480-VOLT, THREE-PHASE	24	BWW	4680	7	O/C	2-F-0006	
FLTR-FV-600-A	V505	480-VOLT, THREE-PHASE	18	FI	665	4	O/C	2-F-0006	
FLTR-FCV-607-A	V505	480-VOLT, THREE-PHASE	6	FE/FTW	665	9	M	2-F-0006	
FLTR-FV-606-B	V505	480-VOLT, THREE-PHASE	8	FE	665	9	O/C	2-F-0007	
FLTR-FV-605-B	V505	480-VOLT, THREE-PHASE	8	FTW	665	9	O/C	2-F-0007	
FLTR-FV-604-B	V505	480-VOLT, THREE-PHASE	6	FE/FTW	665	9	O/C	2-F-0007	C
FLTR-FV-603-B	V505	480-VOLT, THREE-PHASE	20	BWS	4680	23	O/C	2-F-0007	
FLTR-FV-602-B	V505	480-VOLT, THREE-PHASE	8	BWA	1040 SCFM	11	O/C	2-F-0007	
FLTR-FV-601-B	V505	480-VOLT, THREE-PHASE	24	BWW	4680	7	O/C	2-F-0007	
FLTR-FV-600-B	V505	480-VOLT, THREE-PHASE	18	FI	665	4	O/C	2-F-0007	
FLTR-FCV-607-B	V505	480-VOLT, THREE-PHASE	6	FE/FTW	665	9	M	2-F-0007	
FLTR-FV-606-C	V505	480-VOLT, THREE-PHASE	8	FE	665	9	O/C	2-F-0008	
FLTR-FV-605-C	V505	480-VOLT, THREE-PHASE	8	FTW	665	9	O/C	2-F-0008	
FLTR-FV-604-C	V505	480-VOLT, THREE-PHASE	6	FE/FTW	665	9	O/C	2-F-0008	C
FLTR-FV-603-C	V505	480-VOLT, THREE-PHASE	20	BWS	4680	23	O/C	2-F-0008	
FLTR-FV-602-C	V505	480-VOLT, THREE-PHASE	8	BWA	1040 SCFM	11	O/C	2-F-0008	
FLTR-FV-601-C	V505	480-VOLT, THREE-PHASE	24	BWW	4680	7	O/C	2-F-0008	
FLTR-FV-600-C	V505	480-VOLT, THREE-PHASE	18	FI	665	4	O/C	2-F-0008	
FLTR-FCV-607-C	V505	480-VOLT, THREE-PHASE	6	FE/FTW	665	9	M	2-F-0008	
FLTR-FV-606-D	V505	480-VOLT, THREE-PHASE	8	FE	665	9	O/C	2-F-0009	
FLTR-FV-605-D	V505	480-VOLT, THREE-PHASE	8	FTW	665	9	O/C	2-F-0009	
FLTR-FV-604-D	V505	480-VOLT, THREE-PHASE	6	FE/FTW	665	9	O/C	2-F-0009	C
FLTR-FV-603-D	V505	480-VOLT, THREE-PHASE	20	BWS	4680	23	O/C	2-F-0009	
FLTR-FV-602-D	V505	480-VOLT, THREE-PHASE	8	BWA	1040 SCFM	11	O/C	2-F-0009	
FLTR-FV-601-D	V505	480-VOLT, THREE-PHASE	24	BWW	4680	7	O/C	2-F-0009	
FLTR-FV-600-D	V505	480-VOLT, THREE-PHASE	18	FI	665	4	O/C	2-F-0009	
FLTR-FCV-607-D	V505	480-VOLT, THREE-PHASE	6	FE/FTW	665	9	M	2-F-0009	
FLTR-FV-606-E	V505	480-VOLT, THREE-PHASE	8	FE	665	9	O/C	2-F-0010	
FLTR-FV-605-E	V505	480-VOLT, THREE-PHASE	8	FTW	665	9	O/C	2-F-0010	
FLTR-FV-604-E	V505	480-VOLT, THREE-PHASE	6	FE/FTW	665	9	O/C	2-F-0010	C
FLTR-FV-603-E	V505	480-VOLT, THREE-PHASE	20	BWS	4680	23	O/C	2-F-0010	
FLTR-FV-602-E	V505	480-VOLT, THREE-PHASE	8	BWA	1040 SCFM	11	O/C	2-F-0010	
FLTR-FV-601-E	V505	480-VOLT, THREE-PHASE	24	BWW	4680	7	O/C	2-F-0010	
FLTR-FV-600-E	V505	480-VOLT, THREE-PHASE	18	FI	665	4	O/C	2-F-0010	
FLTR-FCV-607-E	V505	480-VOLT, THREE-PHASE	6	FE/FTW	665	9	M	2-F-0010	
FLTR-FV-606-F	V505	480-VOLT, THREE-PHASE	8	FE	665	9	O/C	2-F-0011	
FLTR-FV-605-F	V505	480-VOLT, THREE-PHASE	8	FTW	665	9	O/C	2-F-0011	
FLTR-FV-604-F	V505	480-VOLT, THREE-PHASE	6	FE/FTW	665	9	O/C	2-F-0011	C
FLTR-FV-603-F	V505	480-VOLT, THREE-PHASE	20	BWS	4680	23	O/C	2-F-0011	
FLTR-FV-602-F	V505	480-VOLT, THREE-PHASE	8	BWA	1040 SCFM	11	O/C	2-F-0011	
FLTR-FV-601-F	V505	480-VOLT, THREE-PHASE	24	BWW	4680	7	O/C	2-F-0011	
FLTR-FV-600-F	V505	480-VOLT, THREE-PHASE	18	FI	665	4	O/C	2-F-0011	
FLTR-FCV-607-F	V505	480-VOLT, THREE-PHASE	6	FE/FTW	665	9	M	2-F-0011	
W2-FV-702-C	V941	120-VOLT, SINGLE-PHASE	1	W2	15	30	O/C	2-F-0014	B
W2-FV-702-B	V941	120-VOLT, SINGLE-PHASE	1	W2	15	30	O/C	2-F-0014	B
W2-FV-702-A	V941	120-VOLT, SINGLE-PHASE	1	W2	15	30	O/C	2-F-0014	B
SLDP-FV-705	V902	480-VOLT, THREE-PHASE	3	SLW	20	15	O/C	2-F-0014	
SLDP-FV-704-C	V902	480-VOLT, THREE-PHASE	6	TSL	120	5	O/C	2-F-0014	
SLDP-FV-704-B	V902	480-VOLT, THREE-PHASE	6	TSL	120	5	O/C	2-F-0014	
SLDP-FV-704-A	V902	480-VOLT, THREE-PHASE	6	TSL	120	5	O/C	2-F-0014	
SLDP-FV-701-C	V505	480-VOLT, THREE-PHASE	3	DCT	200	2	O/C	2-F-0014	
SLDP-FV-701-B	V505	480-VOLT, THREE-PHASE	3	DCT	200	2	O/C	2-F-0014	
SLDP-FV-701-A	V505	480-VOLT, THREE-PHASE	3	DCT	200	2	O/C	2-F-0014	
SLDP-FV-700-C	V902	120-VOLT, SINGLE-PHASE	1.5	SLW	20	5	O/C	2-F-0014	
SLDP-FV-700-B	V902	120-VOLT, SINGLE-PHASE	1.5	SLW	20	5	O/C	2-F-0014	
SLDP-FV-700-A	V902	120-VOLT, SINGLE-PHASE	1.5	SLW	20	5	O/C	2-F-0014	
W2-FV-721	V941	120-VOLT, SINGLE-PHASE	0.375	W2	15	30	O/C	2-F-0015	B
CHEM-FV-531	V900	120-VOLT, SINGLE-PHASE	1	SU	5 GPH	10	O/C	2-F-0016	B
CHEM-FV-520	V900	120-VOLT, SINGLE-PHASE	1	FCL	15 GPH	10	O/C	2-F-0017	B
W3-FV-512-C	VENDOR SUPPLIED	120-VOLT, SINGLE-PHASE	0.75	W3	90 GPH	100	O/C	2-F-0018	B
W3-FV-512-B	VENDOR SUPPLIED	120-VOLT, SINGLE-PHASE	0.75	W3	90 GPH	100	O/C	2-F-0018	B
W3-FV-512-A	VENDOR SUPPLIED	120-VOLT, SINGLE-PHASE	0.75	W3	90 GPH	100	O/C	2-F-0018	B
CHEM-FV-512-B	V335	120-VOLT, SINGLE-PHASE	1	FAP	1 GPH	5	O/C	2-F-0018	B
CHEM-FV-512-A	V335	120-VOLT, SINGLE-PHASE	1	FAP	1 GPH	5	O/C	2-F-0018	B
W3-FV-511-C	VENDOR SUPPLIED	120-VOLT, SINGLE-PHASE	0.75	W3	27 GPH	100	O/C	2-F-0019	B
W3-FV-511-B	VENDOR SUPPLIED	120-VOLT, SINGLE-PHASE	0.75	W3	26 GPH	100	O/C	2-F-0019	B
W3-FV-511-A	VENDOR SUPPLIED	120-VOLT, SINGLE-PHASE	0.75	W3	25 GPH	100	O/C	2-F-0019	B
CHEM-FV-511-B	V335	120-VOLT, SINGLE-PHASE	1	FLP	0.5 GPH	5	O/C	2-F-0019	B
CHEM-FV-511-A	V335	120-VOLT, SINGLE-PHASE	1	FLP	0.5 GPH	5	O/C	2-F-0019	B
W2-FV-513-B	VENDOR SUPPLIED	120-VOLT, SINGLE-PHASE	0.75	W3	6	100	O/C	2-F-0020	B
W2-FV-513-A	VENDOR SUPPLIED	120-VOLT, SINGLE-PHASE	0.75	W3	6	100	O/C	2-F-0020	B
CHEM-FV-513-B	V337	120-VOLT, SINGLE-PHASE	1	TAP	2 GPH	5	O/C	2-F-0020	B
CHEM-FV-513-A	V337	120-VOLT, SINGLE-PHASE	1	TAP	2 GPH	5	O/C	2-F-0020	B
CHEM-FV-500-B	V335	120-VOLT, SINGLE-PHASE	1	SB	1.0 GPH	5	O/C	2-F-0021	B
CHEM-FV-500-A	V335	120-VOLT, SINGLE-PHASE	1	SB	1.0 GPH	5	O/C	2-F-0021	B
CHEM-FV-540-B	V335	120-VOLT, SINGLE-PHASE	1	OGS	2.5 GPH	5	O/C	2-F-0022	B
CHEM-FV-540-A	V335	120-VOLT, SINGLE-PHASE	1	OGS	2.5 GPH	5	O/C	2-F-0022	B
CHEM-FV-550-B	V335	120-VOLT, SINGLE-PHASE	1	SH	1.0 GPH	5	O/C	2-F-0023	B
CHEM-FV-550-A	V335	120-VOLT, SINGLE-PHASE	1	SH	1.0 GPH	5	O/C	2-F-0023	B
CAIR-FV-802-B	VENDOR SUPPLIED	120-VOLT, SINGLE-PHASE	1	CO	43 SCFM	150	O/C	2-F-0024	VENDOR SUPPLIED
CAIR-FV-802-A	VENDOR SUPPLIED	120-VOLT, SINGLE-PHASE	1	CO	43 SCFM	150	O/C	2-F-0024	VENDOR SUPPLIED
CAIR-FV-801-B	VENDOR SUPPLIED	120-VOLT, SINGLE-PHASE	1	CO	43 SCFM	150	O/C	2-F-0024	VENDOR SUPPLIED
CAIR-FV-801-A	VENDOR SUPPLIED	120-VOLT, SINGLE-PHASE	1	CO	43 SCFM	150	O/C	2-F-0024	VENDOR SUPPLIED
CAIR-FV-800-B	VENDOR SUPPLIED	120-VOLT, SINGLE-PHASE	1	CO	43 SCFM	150	O/C	2-F-0024	VENDOR SUPPLIED
CAIR-FV-800-A	VENDOR SUPPLIED	120-VOLT, SINGLE-PHASE	1	CO	43 SCFM	150	O/C	2-F-0024	VENDOR SUPPLIED

SERVICE: O/C = OPEN CLOSE, T = THROTTLING, M = MODULATING
CONTROL FEATURE MODIFICATIONS/SUPPLEMENTS:
A = ACTUATOR SHALL OPEN VALVE UPON LOSS OF SIGNAL.
B = ACTUATOR SHALL CLOSE VALVE UPON LOSS OF SIGNAL.
C = ACTUATOR SHALL REMAIN IN LAST POSITION UPON LOSS OF SIGNAL.
D = LOCAL OPEN-CLOSE MOMENTARY PUSHBUTTONS THAT MUST BE CONTINUOUSLY DEPRESSED TO INITIATE/MAINTAIN VALVE TRAVEL; TRAVEL STOPS WHEN PUSHBUTTON IS RELEASED OR WHEN END OF TRAVEL LIMIT IS REACHED.
E = REMOTE OPEN-CLOSE MAINTAINED DRY CONTACTS; TRAVEL STOPS WHEN REMOTE CONTACT OPENS, OR WHEN END OF TRAVEL LIMIT IS REACHED.
F = THREE 24 VOLT DC INTERPOSING RELAYS FOR REMOTE OPEN-STOP-CLOSE CONTROL. RELAYS POWERED EXTERNALLY, THEREBY PERMITTING VALVE CONTROL FROM GREATER DISTANCES.
G = MOTOR AND CONTROL ENCLOSURE(S) NEMA 250, TYPE 4 WITH 120 VOLT SPACE HEATERS.
H = MOTOR AND CONTROL ENCLOSURE(S) NEMA 250, TYPE 6 (IP 68) WITH 120 VOLT SPACE HEATERS.
I = MOTOR AND CONTROL ENCLOSURE(S) NEMA 250, TYPE 7 WITH 120 VOLT SPACE HEATERS.
J = VALVE POSITION OUTPUT CONVERTER THAT GENERATES ISOLATED 4 MA TO 20 MA DC SIGNAL IN PROPORTION TO VALVE POSITION, AND IS CAPABLE OF DRIVING INTO LOADS OF UP TO 500 OHMS AT 24 VOLTS DC.
K = 120 VOLT SECONDARY CONTROL POWER TRANSFORMER.
L = EXTERNALLY OPERABLE POWER DISCONNECT SWITCH.

THIS DRAWING IS LOANED FOR SOLE USE OF THE INTENDED RECIPIENT AND ONLY FOR THE LIMITED PURPOSES FOR WHICH IT WAS PROVIDED. USE BY OTHER ENTITIES OR FOR OTHER PURPOSES IS PROHIBITED AND AT THE USER'S OWN RISK. DRAWINGS ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING RECIPIENT.

PART	REV	DESCRIPTION	DRW	CHKR	DE	DVR	DM	DATE
	Ø	ISSUED FOR CONSTRUCTION	LW	QW	NB		LE	06/2017

REVISION OR ISSUE PURPOSE

PE	DATE

REVISION APPROVALS

WE	AR	CV	ST	HV	EM	FP	PD	EE	IE	M	NP

SQUAD CHECK

RPE

DRW	L WALTER	06/16/17
CHKR	Q WANG	06/16/17
DE	N BERGLAND	06/16/17
DVR		
DM	L ELLIS	06/16/17
PE	Teresa J. Pierce, P.E.	

REV. DATE

DRAWING APPROVALS

DATE

UCOR URS | CH2M Oak Ridge LLC

OF200 Mercury Treatment Facility
Designed by URS|CH2M Oak Ridge LLC (UCOR) for the Department of Energy
Oak Ridge Office of Environmental Management
under U. S. Government contract DE-SC-0004645

Y-12 National Security Complex managed and operated by Consolidated Nuclear Security, LLC for the Department of Energy under U.S. Government contract DE-NA0001942
« Oak Ridge, Tennessee »

PROJECT NAME:
OF200 MERCURY TREATMENT FACILITY

GENERAL
ELECTRIC ACTUATED VALVE SCHEDULE

USE	DISC	DT	DC	CM	SYSTEM	STAT	SIZE	BLDG	FL	CLASS
3	M	X	X	NC	FAC	AR	E	9410-01	X	U

SH.	OF	TYPE		PART	REV
1	1	DD	M941001-F-0003	000	0

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ISSUED FOR CONSTRUCTION

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