CHILLER C-24-1 SCHEDULE

		CHILLER/EVAPORATOR					CONDENSER				TURBINE						
ITEM NO	CAPACITY (TONS)	FLOW (GPM)	ENTERING WATER TEMPERATURE (DEGREES F)	LEAVING WATER TEMPERATURE (DEGREES F)	PRESSURE DROP (FEET.W.G.)	NO. PASSES	FLOW (GPM)	ENTERING WATER TEMPERATURE (DEGREES F)	LEAVING WATER TEMPERATURE (DEGREES F)	PRESSURE DROP (FEET.W.G.)	STEAM FLOW (IBM/HR)	INLET STEAM PRESSURE (PSIG)	INLET TEMPERATURE (DEGREES F)	INLET SUPERHEAT (DEGREES F)	EXHAUST PRESSURE (IN.HG.)	OPERATING SPEED (RPM)	NOTES
C-24-1	2000	4,800	52	42	18.2	2	6,000	86	95.4	21.6	14,260	400	600	153	2.65	4500	1

NOTES:
1. CHILLER C-24-1 SHALL BE PROVIDED WITH FACTORY MOUNTED MOMENTARY START AND MOMENTARY STOP SWITCHES FOR CHILLED WATER PUMP CHWP-24-1. SWITCHES SHALL BE INTEGRAL TO CHILLER CONTROL PANEL AND RECESSED INTO THE FACE OF THE CHILLER CONTROL PANEL DOOR.

SURFACE CONDENSER SC-24-1 SCHEDULE

ITEM NUMBER	STEAM SIDE (SHELL SIDE)				CONDENSER WATER SIDE (TUBE SIDE)					WEIGHT (LBM)	NOTES
	FLOW (LBM/HR)	INLET PRESSURE (IN.HG.)	MAXIMUM OPERATING PRESSURE (PSIG)	MAXIMUM OPERATING TEMPERATURE (DEGREES F)	FLOW (GPM)	PRESSURE DROP (IN.W.G)	INLET TEMPERATURE (DEGREES F)	OUTLET TEMPERATURE (DEGREES F)	FOULING FACTOR		
SC-24-1	14,260	2.65	15	150	6,000	8.3	95.4	99.9	0.01	26,000	1

NOTES:
1. TANK SHALL BE ASME CERTIFIED, ASME VIII DIVISION 1 CODE SYMBOL U REQUIRED, NATIONAL BOARD REGISTERED. ASME U-1A MANUFACTURER DATA REPORT SHALL BE PROVIDED BY ASME CODED FABRICATING SHOP AND SUBMITTED TO THE GOVERNMENT VIA THE NASA PROJECT MANAGER.

OPTION #2

PUMP SCHEDULE

ITEM NO	DESCRIPTION	BASIS OF DESIGN	FLOW (GPM)	TOTAL HEAD (FT.W.G.)	FLUID	NPSHR (FT.W.G.)	OPERATING TEMPERATURE (F°)	MOTOR SIZE (HP)	RPM	VOLTAGE	REMARKS	NOTES
CHWP-24-1	CHILLED WATER PUMP	GOULD MODEL 3400 OR EQUAL	6000	120	WATER	27	40	250	1,780	480/60/3	HORIZONTAL CENTRIFUGAL	2,3,4,5,6,7
CHWP-24-2	CHILLED WATER PUMP	GOULD MODEL 3400 OR EQUAL	6000	120	WATER	27	40	250	1,780	480/60/3	HORIZONTAL CENTRIFUGAL	2,3,4,5,6,7
CHWP-24-3	CHILLED WATER PUMP	GOULD MODEL 3400 OR EQUAL	6000	120	WATER	27	40	250	1,780	480/60/3	HORIZONTAL CENTRIFUGAL	2,3,4,5,6,7
CHWP-24-4	CHILLED WATER PUMP	GOULD MODEL 3400 OR EQUAL	6000	120	WATER	27	40	250	1,780	480/60/3	HORIZONTAL CENTRIFUGAL	2,3,4,5,6,7
CHWP-24-5	CHILLED WATER PUMP	GOULD MODEL 3400 OR EQUAL	6000	120	WATER	27	40	250	1,780	480/60/3	HORIZONTAL CENTRIFUGAL	2,3,4,5,6,7
CHWP-24-6	CHILLED WATER PUMP	GOULD MODEL 3400 OR EQUAL	6000	120	WATER	27	40	250	1780	480/60/3	HORIZONTAL CENTRIFUGAL	2,3,4,5,6,7
CHWP-24-7	CHILLED WATER PUMP	GOULD MODEL 3400 OR EQUAL	6000	120	WATER	27	40	250	1,780	480/60/3	HORIZONTAL CENTRIFUGAL	2,3,4,5,6,7
MWTP-24-1	MAKEUP WATER	GRUNDFOS MODEL	90	50	WATER	7	200	2	3,500	480/60/3	VERTICAL CENTRIFUGAL	1,7
MWTP-24-2	MAKEUP WATER	GRUNDFOS MODEL	90	50	WATER	7	200	2	3,500	480/60/3	VERTICAL CENTRIFUGAL	1,7
STTP-24-1	CONDENSATE WATER	GRUNDFOS MODEL	90	50	WATER	7	200	2	3,500	480/60/3	VERTICAL CENTRIFUGAL	1,7
STTP-24-2	CONDENSATE WATER	GRUNDFOS MODEL	90	50	WATER	7	200	2	3,500	480/60/3	VERTICAL CENTRIFUGAL	1,7

NOTES:
1. BLOWDOWN FLASH TANK (BDFT-24-1), SURGE TANK (ST-24-1), CONTINUOUS BLOWDOWN COOLER (CBC-24-1), PUMPS (MWTP-24-1, MWTP-24-2, STTP-24-1, STTP-24-2), AND TEMPERATURE CONTROL VALVES (CV-1, CV-2) SHALL BE PROVIDED ON A SINGLE SUBSTANTIAL STEEL BASE BY THE MANUFACTURER AND IT SHALL SHIP FACTORY ASSEMBLED AND TESTED.
2. COUPLINGS SHALL BE FALK GRID-TYPE.
3. MOTORS SHALL BE INVERTER DUTY, SEVERE DUTY, PREMIUM EFFICIENCY (MINIMUM 92%).
4. PUMP/MOTOR ASSEMBLIES SHALL FIT TO EXISTING FLANGES. CONTRACTOR SHALL PROVIDE ANY MODIFICATIONS TO PIPING AND/OR MOTOR BASES, AS REQUIRED.
5. PROVIDE WITH 316 STAINLESS STEEL DRAIN PLUG AND SHAFT SLEEVE.
6. PROVIDE FACTORY MOUNTED STEEL MOTOR/PUMP ISOLATION BASE.
7. SHUTOFF HORSEPOWER SHALL NOT EXCEED SCHEDULED MOTOR HORSEPOWER.

BLOWDOWN FLASH TANK (BDFT-24-1), SURGE TANK (ST-24-1), BLOWDOWN SEPARATOR TANK (BDST-24-1, BDST-24-2), MOISTURE SEPARATOR (MS-24-1) SCHEDULE

ITEM NO.	BASIS OF DESIGN	VOLUME (GALLONS)	MAXIMUM ALLOWABLE WORKING PRESSURE (PSIG)	PRESSURE RATING TEMPERATURE (F)	DESIGN PRESSURE (PSIG)	DESIGN TEMPERATURE (°F)	APPROXIMATE SIZE (INCHES) DIAMETER X HEIGHT	NOTES
BDFT-24-1	PENN SEPARATOR FS 10x34	15	150	450	25	270	10 X 34	1,2,3,5
ST-24-1	PENN SEPARATOR	500	50	300	0	212	48 X 66	1,2,3,5,7
BDST-24-1	PENN SEPARATOR A56B	100	250	450	50	270	24 X 50	1,3,4,5,6
BDST-24-2	PENN SEPARATOR A56B	100	250	450	50	270	24 X 50	1,3,4,5,6
MS-24-1	PENN SEPARATOR IS 4-12 MOISTURE SEPARATOR	–	500	700	420	650	–	1,3,5,8

NOTES:
1. TANK SHALL BE ASME CERTIFIED, ASME VIII DIVISION 1 CODE SYMBOL U REQUIRED, NATIONAL BOARD REGISTERED. ASME U-1A MANUFACTURER DATA REPORT SHALL BE PROVIDED BY ASME CODED FABRICATING SHOP AND SUBMITTED TO THE GOVERNMENT VIA THE NASA PROJECT MANAGER.
2. BLOWDOWN FLASH TANK (BDFT-24-1), SURGE TANK (ST-24-1), CONTINUOUS BLOWDOWN COOLER (CBC-24-1), PUMPS (MWTP-24-1, MWTP-24-2, STTP-24-1, STTP-24-2), AND TEMPERATURE CONTROL VALVES (CV-1, CV-2) SHALL BE PROVIDED ON A SINGLE SUBSTANTIAL STEEL BASE AND IT SHALL SHIP FACTORY ASSEMBLED AND TESTED. WELLS AND FITTINGS REQUIRED FOR TEMPERATURE SENSORS AND PRESSURE SENSING SHALL BE PROVIDED. TRANSMITTERS AND INDICATORS SHALL BE MOUNTED ON INSTRUMENT STANDS. SEE DETAIL 4 AND 5, DRAWING M-24-237 FOR MOUNTING DETAIL. SEE DRAWINGS FOR LOCATIONS.
3. TANKS SHALL BE FACTORY PAINTED WITH RED OXIDE PRIMER.
4. STRIKING PLATES SHALL BE CONSTRUCTED OF 16 GAUGE SA-240-304 .
5. TANK SHALL BE FIELD INSULATED. TANKS AND PIPING SHALL BE CONSTRUCTED WITH MINIMUM FOUR INCH CLEARANCES FOR FIELD INSULATING.
6. TANK HEADS SHALL BE FABRICATED FROM SA517-70 & SA234WPB CARBON STEEL.
7. TANK SHALL BE FABRICATED OF 304 STAINLESS STEEL.
8. PROVIDE FOUR INCH CLASS 600 LB FLANGED STEAM INLET AND OUTLET. PROVIDE TWO INCH THREADED DRAIN CONNECTION. PROVIDE SIGHT GLASS. DO NOT INSULATE SIGHT GLASS.

CONTINUOUS BLOWDOWN COOLER (CBC-24-1) SCHEDULE

ITEM NUMBER	BASIS OF DESIGN	HOT BLOWDOWN SIDE (SHELL SIDE)						WATER SIDE (TUBE SIDE)				NOTES
		FLOW (LBM/HR)	MAXIMUM ALLOWABLE WORKING PRESSURE (PSIG)	PRESSURE RATING TEMPERATURE (F)	DESIGN PRESSURE (PSIG)	DESIGN TEMPERATURE (F)	BTU/HR	FLOW (GPM)	PRESSURE DROP (FT.W.G)	INLET TEMPERATURE (F)	FOULING FACTOR	
CBC-24-1	PENN SEPARATOR MODEL QWU 86-22	3,748	150	300	50	270	637,500	90	20	80	0.005	1,2,3,4

NOTES:
1. TANK SHALL BE ASME CERTIFIED, ASME VIII DIVISION 1 CODE SYMBOL U REQUIRED, NATIONAL BOARD REGISTERED. ASME U-1A MANUFACTURER DATA REPORT SHALL BE PROVIDED BY ASME CODED FABRICATING SHOP AND SUBMITTED TO THE GOVERNMENT VIA THE NASA PROJECT MANAGER.
2. BLOWDOWN FLASH TANK (BDFT-24-1), SURGE TANK (ST-24-1), CONTINUOUS BLOWDOWN COOLER (CBC-24-1), PUMPS (MWTP-24-1, MWTP-24-2, STTP-24-1, STTP-24-2), AND TEMPERATURE CONTROL VALVES (CV-1, CV-2) SHALL BE PROVIDED ON A SINGLE SUBSTANTIAL STEEL BASE BY THE MANUFACTURER AND IT SHALL SHIP FACTORY ASSEMBLED AND TESTED.
3. U-TUBE HEAT EXCHANGER SHALL BE TWO PASS, 18 GA COPPER TUBES, NON-FERROUS TUBE SUPPORT SHEETS AND HEADS.
4. SCHEDULED STEAM SIDE FLOW DOES NOT INCLUDE FLASH STEAM RECOVERED INTO LOW PRESSURE STEAM SYSTEM AT FLASH TANK.

OPTION #1
EXCEPT MS-24-1

TEMPERATURE CONTROL VALVE SCHEDULE

ITEM NO.	LOCATION	SERVICE	FLOW	CV	SIZE	CONSTRUCTION	ACTUATOR	BASIS OF DESIGN	NOTES
CV-1	SURGE TANK ST-24-1	DEALKALYZED WATER	71.9	30.9	2 INCH	IRON	PNEUMATIC	LESLIE CONTROL, INC.	1, 2,4
CV-2	FLASH TANK BDFT-24-1	CONTINUOUS BLOWDOWN	4	0.77	1 INCH	IRON	PNEUMATIC	LESLIE CONTROL, INC.	1, 2,4
CV-3	BLOWDOWN SEPARATOR TANK BDST-24-1	CONDENSER SUPPLY	100	14.74	2 INCH	IRON	PNEUMATIC	LESLIE CONTROL, INC.	1, 3,4
CV-4	BLOWDOWN SEPARATOR TANK BDST-24-1	POTABLE WATER	125	19.61	2 INCH	IRON	PNEUMATIC	LESLIE CONTROL, INC.	1, 3,4
CV-5	BLOWDOWN SEPARATOR TANK BDST-24-2	CONDENSER SUPPLY	100	14.74	2 INCH	IRON	PNEUMATIC	LESLIE CONTROL, INC.	1, 3,4
CV-6	BLOWDOWN SEPARATOR TANK BDST-24-2	POTABLE WATER	125	19.61	2 INCH	IRON	PNEUMATIC	LESLIE CONTROL, INC.	1, 3,4
CV-7	CONDENSATE TANK COT-24-2	DEALKALYZED WATER	71.9	30.9	2 INCH	IRON	PNEUMATIC	LESLIE CONTROL, INC.	1,4
CV-8	CHILLER C-24-1 CONDENSER WATER	CONDENSER RETURN	6,000	8,000	16 INCH	IRON	PNEUMATIC	CRANE	1,5
CV-9	CHILLER C-24-1 CHILLED WATER	CHILLED WATER SUPPLY	4,800	4,800	16 INCH	IRON	PNEUMATIC	CRANE	1,5

NOTES:
1. SEE WRITTEN SPECIFICATIONS FOR DETAILS.
2. CONTROL VALVES FURNISHED WITH BLOWDOWN FLASH TANK SKIDDED EQIUPMENT.
3. CONTROL VALVES FURNISHED WITH BLOWDOWN SEPARATORS BDST-24-1 AND BDST-24-2.
4. ACTUATOR SHALL BE LOOP POWERED BY PLC, 24 VDC.
5. ACTUATOR SHALL BE LOOP POWERED BY CHILLER CONTROL PANEL, 24 VDC.

CHILLER (C-24-1) VALVE SCHEDULE

ITEM NO.	LOCATION	SERVICE	SIZE	CLASS	CONSTRUCTION	CONNECTION	BASIS OF DESIGN	NOTES
BV-2	C-24-1	CHILLED WATER RETURN						3
HV-1	C-24-1	CHILLED WATER SUPPLY						3
HV-T4	C-24-1	CHILLED WATER						1,2
HV-T5	C-24-1	CHILLED WATER						1,2
HV-T6	C-24-1	CHILLED WATER						1,2
HV-T7	C-24-1	CHILLED WATER						1,2
HV-1	C-24-1	CHILLED WATER RETURN	2 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	OIL COOLER COOLING WATER ISOLATION
HV-2	C-24-1	CHILLED WATER RETURN	2 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	PRESSURE INDICATOR ISOLATION
HV-3	C-24-1	DRAIN	3/4 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	OIL COOLER COOLING WATER DRAIN DOWN
HV-4	C-24-1	DRAIN	2 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	OIL COOLER COOLING WATER DRAIN DOWN
HV-5	C-24-1	DRAIN	2 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	COMPRESSOR OIL COOLER COOLING WATER DRAIN
HV-6	C-24-1	DRAIN	2 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	TURBINE OIL COOLER COOLING WATER DRAIN
HV-7	C-24-1	CHILLED WATER RETURN	3/4 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	CHILLED WATER PDSLL ISOLATION
HV-8	C-24-1	CHILLED WATER RETURN	3/4 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	CHILLED WATER PDSLL ISOLATION
HV-9		NOT USED						
HV-10	C-24-1	DRAIN	3/4 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	CHILLER WATER BOX DRAIN
HV-11	C-24-1	DRAIN	3/4 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	CHILLER WATER BOX DRAIN
HV-12	C-24-1	CHILLED WATER SUPPLY	3/4 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	CHILLED WATER SUPPLY PIPING VENT
HV-13	C-24-1	DRAIN	3/4 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	CHILLED WATER SUPPLY DRAIN
HV-14	C-24-1	CONDENSER RETURN	3/4 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	CONDENSER WATER PDSLL ISOLATION
HV-15	C-24-1	CONDENSER RETURN	3/4 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	CONDENSER WATER PDSLL ISOLATION
HV-16	C-24-1	CONDENSER SUPPLY	16 INCH	150	CARBON STEEL	FLANGED	CRANE	CONDENSER SUPPLY ISOLATION
HV-17	C-24-1	DRAIN	3/4 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	CONDENSER WATER BOX DRAIN
HV-18	C-24-1	DRAIN	3/4 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	CONDENSER WATER BOX DRAIN
HV-19	C-24-1	POTABLE WATER	3/4 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	POTABLE WATER HEAT EXCHANGER INLET ISOLATION
HV-20	C-24-1	POTABLE WATER	3/4 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	POTABLE WATER HEAT EXCHANGER OUTLET ISOLATION
HV-21	C-24-1	CHILLED WATER RETURN	3/4 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	CHILLED WATER SUPPLY HEAT EXCHANGER INLET ISOLATION
HV-22	C-24-1	CHILLED WATER RETURN	3/4 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	CHILLED WATER SUPPLY HEAT EXCHANGER OUTLET ISOLATION
HV-23	C-24-1	NOT USED						
HV-24	C-24-1	DRAIN	3/4 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	CONDENSER RETURN DRAIN
HV-25	C-24-1	DRAIN	3/4 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	CONDENSER RETURN CV DRAIN
HV-30	C-24-1	HIGH PRESSURE STEAM	4 INCH	600	CARBON STEEL	FLANGED	CRANE MODEL 33	HIGH PRESSURE STEAM BLOCK VALVE (FIRST FLOOR)
HV-31	C-24-1	HIGH PRESSURE STEAM	2 INCH	600	CARBON STEEL	FLANGED	CRANE MODEL 33	GATE BLOCK VALVE ASSIST
HV-32	C-24-1	HIGH PRESSURE STEAM	3/4 INCH	600	CARBON STEEL	FLANGED	IFC SERIES 2FB300	STEAM TRAP ISOLATION (STEAM SIDE)
HV-33	C-24-1	HIGH PRESSURE STEAM	3/4 INCH	300	CARBON STEEL	FLANGED	IFC SERIES 2FB300	STEAM TRAP ISOLATION (CONDENSATE SIDE)
HV-34	C-24-1	HIGH PRESSURE STEAM	3/4 INCH	600	CARBON STEEL	FLANGED	IFC SERIES 2FB300	STEAM TRAP ISOLATION (STEAM SIDE)
HV-35	C-24-1	LOW PRESSURE STEAM	3/4 INCH	150	CARBON STEEL	THREADED	IFC SERIES 2FB10	STEAM TRAP ISOLATION (CONDENSATE SIDE)
HV-36	C-24-1	HIGH PRESSURE STEAM	3 INCH	600	CARBON STEEL	FLANGED	CRANE MODEL 33	HIGH PRESSURE STEAM MAIN BLOCK (SECOND FLOOR)
HV-37	C-24-1	HIGH PRESSURE STEAM	2 INCH	600	CARBON STEEL	FLANGED	CRANE MODEL 33	GATE TYPE, BLOCK ASSIST
HV-38	C-24-1	HIGH PRESSURE STEAM	2 INCH	600	CARBON STEEL	FLANGED	CRANE MODEL 151	GLOBE TYPE, SLOW ROLL BYPASS
HV-39	C-24-1	LOW PRESSURE STEAM	3/4 INCH	150	CARBON STEEL	THREADED	IFC SERIES 2FB10	GLAND STEAM ISOLATION
HV-40	C-24-1	HIGH PRESSURE STEAM	3/4 INCH	300	CARBON STEEL	FLANGED	IFC SERIES 2FB300	STEAM TRAP ISOLATION (CONDENSATE SIDE)
HV-41	C-24-1	HIGH PRESSURE STEAM	2 INCH	600	CARBON STEEL	FLANGED	CRANE MODEL 33	GATE TYPE, STARTUP PURGE PIPING
HV-42	C-24-1	HIGH PRESSURE STEAM	2 INCH	600	CARBON STEEL	FLANGED	CRANE MODEL 33	GATE TYPE, STARTUP PURGE PIPING
HV-51	C-24-1	INSTRUMENT AIR	1 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	TURBINE GOVERNOR AND BEARING SEAL PURGE INSTRUMENT AIR
HV-61	C-24-1	RG	1-1/8 INCH	--	BRASS	SWEAT	HENRY TECHNOLOGIES TYPE 203	REFRIGERATION DUTY BACKSEATING CAST BRONZE GLOBE VALVE
HV-62	C-24-1	NOT USED						
HV-63	C-24-1	RL	1-1/8 INCH	--	BRASS	SWEAT	HENRY TECHNOLOGIES TYPE 203	REFRIGERATION DUTY BACKSEATING CAST BRONZE GLOBE VALVE
HV-64	C-24-1	RG	1-1/8 INCH	--	BRASS	SWEAT	HENRY TECHNOLOGIES TYPE 203	REFRIGERATION DUTY BACKSEATING CAST BRONZE GLOBE VALVE
HV-65	C-24-1	RG	1-1/8 INCH	--	BRASS	SWEAT	HENRY TECHNOLOGIES TYPE 203	REFRIGERATION DUTY BACKSEATING CAST BRONZE GLOBE VALVE
HV-66	C-24-1	RL	1-1/8 INCH	--	BRASS	SWEAT	HENRY TECHNOLOGIES TYPE 203	REFRIGERATION DUTY BACKSEATING CAST BRONZE GLOBE VALVE
HV-67	C-24-1	RG	1-1/8 INCH	--	BRASS	SWEAT	HENRY TECHNOLOGIES TYPE 203	REFRIGERATION DUTY BACKSEATING CAST BRONZE GLOBE VALVE
HV-68	C-24-1	RG	1-1/8 INCH	--	BRASS	SWEAT	HENRY TECHNOLOGIES TYPE 203	REFRIGERATION DUTY BACKSEATING CAST BRONZE GLOBE VALVE
HV-69	C-24-1	RL	1-1/8 INCH	--	BRASS	SWEAT	HENRY TECHNOLOGIES TYPE 203	REFRIGERATION DUTY BACKSEATING CAST BRONZE GLOBE VALVE

NOTES:
1. PROVIDED BY CHILLER MANUFACTURER. CONTRACTOR TO VERIFY VALVE DATA WITH UNIT MANUFACTURER.
2. OIL COOLER ISOLATION VALVES.
3. EXISTING TO REMAIN.

SURFACE CONDENSER (SC-24-1) VALVE SCHEDULE

ITEM NO.	LOCATION	SERVICE	SIZE	CLASS	CONSTRUCTION	CONNECTION	BASIS OF DESIGN	NOTES
BV-1	SC-24-1	CONDENSER RETURN						1
HV-1	SC-24-1	DRAIN	3/4 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	WATER BOX DRAIN
HV-2	SC-24-1	DRAIN	3/4 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	WATER BOX DRAIN
HV-3		NOT USED						
HV-4		NOT USED						
HV-11	SC-24-1	POTABLE WATER	1 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	
HV-12	SC-24-1	POTABLE WATER	3/4 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	
HV-31	SC-24-1	INSTRUMENT AIR	1/2 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	
HV-41	SC-24-1	PUMPED CONDENSATE	2 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	
HV-42	SC-24-1	PUMPED CONDENSATE	2 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	
HV-43	SC-24-1	PUMPED CONDENSATE	2 INCH	150	STAINLESS STEEL	THREADED	IFC SERIES 2FB10	

NOTES:
1. EXISTING TO REMAIN

STATE OF TEXAS
JOHN E. CARLSON, JR.
102512
LICENSED
PROFESSIONAL ENGINEER
2/10/11

Engineering License No. F-845

Burns & McDonnell
KANSAS CITY
THE REGISTRANT OF THE NEWLY APPLIED SEAL, DATED 02/10/11 ONLY ASSUMES RESPONSIBILITY FOR THE CHANGES AS INDICATED BY THE FOLLOWING REVISION(S) 0 & 1

ISSUED FOR CONSTRUCTION

REVISION	DATE	DESCRIPTION
1	02-10-11	REVISED AS NOTED
0	09-24-10	ISSUED FOR CONSTRUCTION

SIGNATURES		DATE
DR. DC	ENG RG	01-28-10
CH JC	APPR JC	09-24-10
REV		
DISCP		
PE		
APPR		

NATIONAL AERONAUTICS & SPACE ADMINISTRATION
LYNDON B. JOHNSON SPACE CENTER HOUSTON, TEXAS

BUILDING 24
CENTRAL HEATING AND COOLING PLANT
MECHANICAL SCHEDULES

PROJECT NO.
PROJECT IDENT NO.
CODE IDENT NO. 21356
SIZE E
SHEET NO. ___ OF ___
DWG NO. M-24-3

CAD FILE NAME: M24-3.dgn

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