RC=CEL:155,100|FORMATS.CEL AC=E7749

LR NOTE B

5 PSIG

1½"-HBD-68

3"-HBD-68

4"-HBD-68

2"-HBD-84

1"-HBD-68

2"-HBD-68

PSV 2034

4"-HBD-325 (V) (D)

3" AS2034

AS147

AS143

AS145

AS135

AS146

AS369

PI 1554

AS1554

6"-HBD-68

AS134 AS133 AS132

AS131

AS142 AS141

AS137

AS485 (D)

3"-HBD-37

AS2033A

AS130

AS2033

AS129

AS128

AS127

AS467 (D)

ST 80

ST 56 ST 55 ST 54

ST 57

ST 59

ST 58

ST 61

ST 77

ST 32

ST 60

ST 117

ST 33

ST 115

ST 116

AS410

AS144

AS139

½" VAC BREAKER

AS136

E50-4 E50-3 E50-2 E50-1

E51-2 1-2

E51-1 1-1

E51-4 1-4

S30 1-1

E104-1 1-1

E51-3 1-3

S31 1-1

E104-2 1-2

E112

HIS NV3997 TSH 3997 ZS 3997 TV 3997 SV 3997 F.O. A/S S

AS539

S/I

HIGHLIGHTING CONTINUED ON LR-M026B

AS530 (D)

WATER TREATMENT HEATING COILS

INTAKE STRUCTURE UNIT HEATERS 1-1, 1-2, 1-3 & 1-4

WATER TREATMENT BUILDING UNIT HEATERS

AS278

AS362 (D)

2"-HBD-249

2"-HBD-296

1"-HBD-75

¾"-HBD-75

¾"-HBD-296

1"-HBD-69

1"-HBD-75

1"-HBD-68

6"-HBD-37 M-020D (A-8)

1"-HBD-349 M-020D (A-8) FROM ST-84

50 PSIG

4"-HBD-37

AS163 (SD)

AS2590B AS2590A

125 GALLON (SEE NOTE 6) T96-2

STATION HEATING CONDENSATE TANK 1-2

LG 2590

AS2038B AS2038A

LSHH 2038 LSH 2038 LSL 2038

1½"-HBD-247

PI 1481 PI 1480

AS1481 AS1480

AS167 AS169 AS165 AS166 AS168 AS164

P165-1 1-1 P165-2 1-2

HIS NP1651 HIS NP1652

STATION HEATING CONDENSATE TANK PUMPS

1½"-HBD-85

1"-HBD-85

2"-HBD-95

M-020D (H-4)

AS162 (V)

2"-HBD-117

1½"-HBD-117

AS575

ST 104

¾" VACUUM BREAKER AS353 (D)

E105

WATER TREATMENT BUILDING UNIT HEATER 1-1

PSV 2126 AS2126

(D) AS160

1½"-HBD-251

2"-HBD-72

AS2589B AS2589A

125 GALLON (SEE NOTE 6) T96-1

STATION HEATING CONDENSATE TANK 1-1

LG 2589

LC 1661 LV 1661

AS1661B AS1661A AS161 AS1661 F.O.

AS159 (V)

BREAKER ¾" VACUUM AS316

¾"-HBD-80

1"-HBD-80

1½"-HBD-72

2"-HBD-72

¾"-HBD-72

1"-HBD-72

1"-HBD-73

AS531 AS532 AS533

ST 5 ST 11 ST 86 ST 85

E103 NEUTRALIZING TANK HEAT EXCHANGER 1-1

E52 FIRE WATER STORAGE TANK HEAT EXCHANGER 1-1

E89 DEMIN. WATER STORAGE TANK HEAT EXCHANGER 1-1

ST 23 ST 62 ST 63

AS312 AS152 AS154

AS239 AS148 AS149

AS291 AS290 AS2036 AS150 AS292 AS293 AS2035 AS151 AS294 AS2037 AS153

HV 2036 HV 2035 HV 2037 SV 2036 SV 2035 SV 2037 ZS 2036 ZS 2035 ZS 2037 HIS 2036 HIS 2035 HIS 2037 F.C. F.O. A/S S I

AS313 (D) AS386 (D)

FROM INTERLOCK M-016A(D-4)

FROM INTERLOCK M-010D(K-9)

1½"-HBD-324

3"-HBD-71

1½"-HBD-81

1½"-HBD-83

2"-HBD-84

M-4"-HBD-325 (V) (D)

AS160 (D)

AS161 AS1661 F.O.

AS1661A

AS1661B

LC 1661

LV 1661

AS159 (V)

BREAKER ¾" VACUUM AS316

¾" S.S. TUBING M-0428 (D-4) SAMPLING CONN.

SS269 ¾"-HBD-73

AS29 AS6713

TV 6713

E107 CAUSTIC DIL. WATER HEAT EXCHANGER 1-1

AS242 AS241 (V)

SV 6713 PCV 6713 PI 6840 AS6840 AS6713A

FROM CONTROL SEQUENCER

FROM CONTROLLER

AS155 AS6711 AS156 AS157 AS158

HV 6711 SV 6711

FROM TS-6711 M-010C(C-5)

1½"-HBD-81

1½"-HBD-83

AS162 (V)

AS1662

1"-HBD-80

1½"-HBD-251

AS2126

AS160 (D)

PSV 2126

AS2589B

AS2589A

LG 2589

LC 1661

LV 1661

AS1661B

AS1661A

AS161

AS1661 F.O.

AS159 (V)

BREAKER ¾" VACUUM AS316

1"-HBD-73

2"-HBD-72

1½"-HBD-72

¾"-HBD-72

1"-HBD-72

AS531 AS532 AS533

ST 5 ST 11 ST 86 ST 85

E103 NEUTRALIZING TANK HEAT EXCHANGER 1-1

E52 FIRE WATER STORAGE TANK HEAT EXCHANGER 1-1

E89 DEMIN. WATER STORAGE TANK HEAT EXCHANGER 1-1

ST 23 ST 62 ST 63

AS312 AS152 AS154

AS239 AS148 AS149

AS291 AS290 AS2036 AS150 AS292 AS293 AS2035 AS151 AS294 AS2037 AS153

HV 2036 HV 2035 HV 2037 SV 2036 SV 2035 SV 2037 ZS 2036 ZS 2035 ZS 2037 HIS 2036 HIS 2035 HIS 2037 F.C. F.O. A/S S I

AS313 (D) AS386 (D)

FROM INTERLOCK M-016A(D-4)

FROM INTERLOCK M-010D(K-9)

1½"-HBD-324

3"-HBD-71

1½"-HBD-81

1½"-HBD-83

2"-HBD-84

AS6713 AS29

TV 6713

E107 CAUSTIC DIL. WATER HEAT EXCHANGER 1-1

AS242 AS241 (V)

SV 6713 PCV 6713 PI 6840 AS6840 AS6713A

FROM CONTROL SEQUENCER

FROM CONTROLLER

AS155 AS6711 AS156 AS157 AS158

HV 6711 SV 6711

FROM TS-6711 M-010C(C-5)

1½"-HBD-81

1½"-HBD-83

AS162 (V)

AS1662

NOTES:

1. SYSTEM FUNCTIONS SHOWN ARE FOR NORMAL SUMMER OPERATION UNDER FULL LOAD WITH A CLEAN PLANT. FIELD CONDITIONS MAY VARY AND ARE CONTROLLED BY PROCEDURES.
2. SEE NOTES 1 & 2 ON DRAWING M-022B & NOTES 3 THRU 7 ON DRAWING M-007B.
3. SEE STEAM TRAP SCHEDULE DRAWING M-617 FOR TRAP DETAILS.
4. STATION ANNUNCIATOR 9-1-D "AUX BLR TRIP", 0010 IS DRIVEN ONLY BY THE AUX BOILER CONTROLLER, BC6594. SEE CONTROL DESCRIPTIONS (OS-050, SH.2) FOR INPUTS TO THE CONTROLLER WHICH WILL TRIP THE AUX BOILER AND ALARM STATION ANNUNCIATOR 9-1-D.
   STATION ANNUNCIATOR 9-2-D "AUX BLR SYS TRBL", 0009 IS DRIVEN DIRECTLY FROM THE HORN CIRCUIT FOR LOCAL AUX BOILER ALARM PANELS 30 AND 31. THEREFORE, ALL LOCAL ALARMS ON THESE PANELS ARE INPUTS TO STATION ANNUNCIATOR 9-2-D.
5. THE ONLY VENT OR DRAIN LINE CAPS REQUIRED TO BE SHOWN ON PIPING AND INSTRUMENTATION DIAGRAMS ARE THOSE CONTROLLED UNDER DB-OP-00009 (FORMERLY AD1839.03). THE ACTUAL TERMINATION OF ALL OTHER VENTS OR DRAINS ARE NOT SHOWN AND INSTEAD, AN OPEN ENDED PIPE IS DISPLAYED.
6. WHERE NOTED THE TANK CAPACITY IS NOMINAL. WHERE APPLICABLE, SEE DB-PF-06705 (TANK LEVEL CALIBRATION CURVES) FOR INDICATED LEVEL VS. VOLUME RELATIONSHIP. (REF: PCAQR 96-0976).
7. ST97BY AND ST97OUT DISABLED CLOSED AND ISOLATE THE ABANDONED PRIMARY WATER STORAGE TANK HT. EXCH. 1-1. REFERENCE MOD 95-0050.

LR NOTES:

A. FOR GENERAL LICENSE RENEWAL NOTES REFER TO LR-M001-01.

B. COMPONENTS BEYOND THE HIGHLIGHTING ARE IN THE INTAKE SUPERSTURE OR WATER TREATMENT BUILDING, AND THEREFORE NOT IN SCOPE.

LICENSE RENEWAL BOUNDARY DRAWING
LR-M020A REV. 0

SYSTEMS SHOWN ON THIS DRAWING:
24: NONSAFETY AFFECTING SAFETY

THIS DRAWING REV.0 SUPERSEDES IN PART DRAWING M-020 REV.47. WORK THIS DRAWING WITH M-020B, M-020C AND M-020D.

BECHTEL ASSOCIATES PROFESSIONAL CORPORATION (OHIO)
GAITHERSBURG, MARYLAND

DAVIS-BESSE NUCLEAR POWER STATION UNIT NO.1
THE TOLEDO EDISON COMPANY

PIPING & INSTRUMENT DIAGRAM
WATER TREATMENT & INTAKE STRUCTURE AUXILIARY STEAM SYSTEM

JOB NO.	DRAWING NO.	REV.
12501	M-020A	18

REF DFN=0511(.) DFN=I:\PIDS.M020A.DGN
LEVELS 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
11-15-05 14 34X44 "E" SIZE PSC= 11 (

01 025