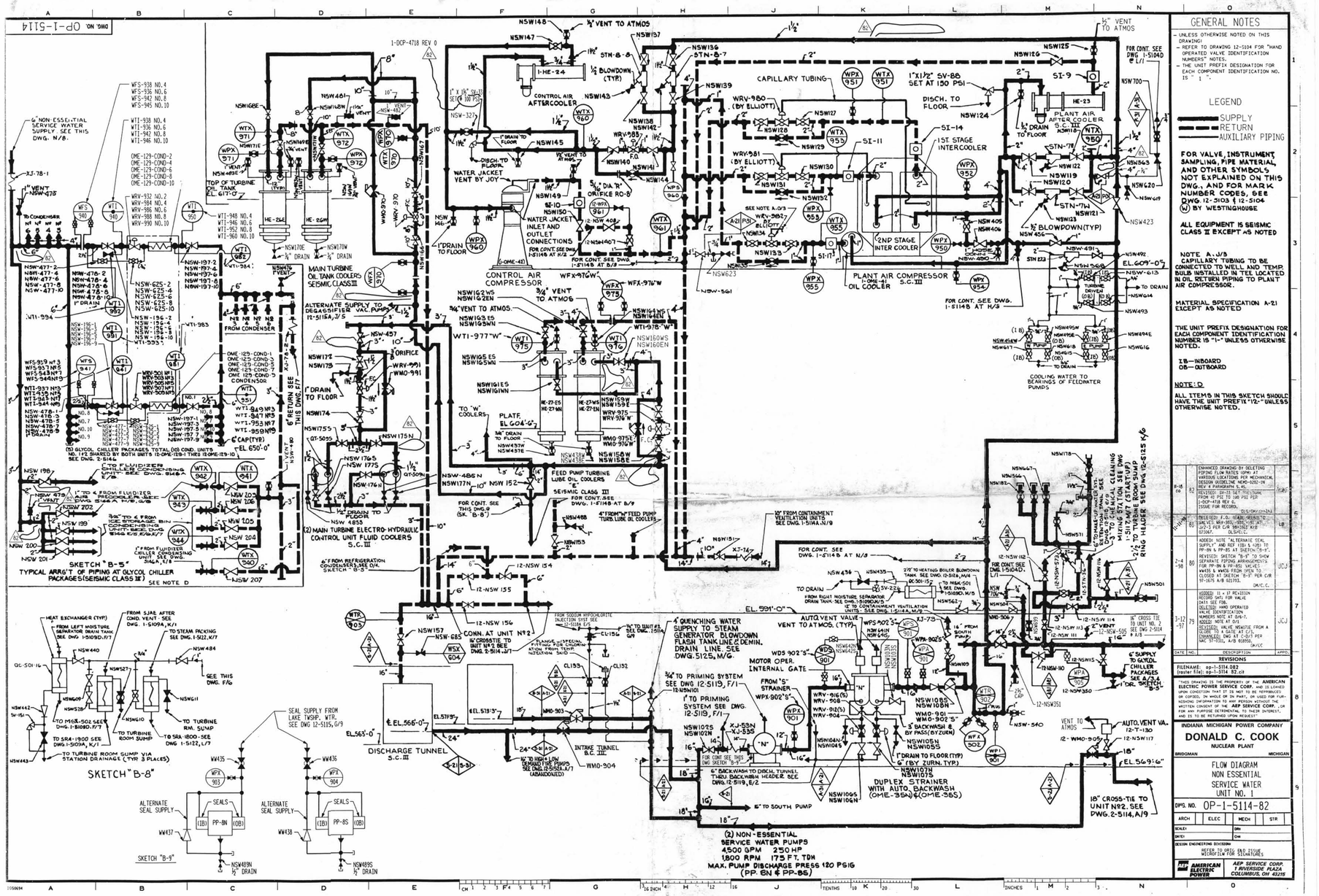
DWG. NO. OP-1-5114
GENERAL NOTES
- UNLESS OTHERWISE NOTED ON THIS DRAWING:
- REFER TO DRAWING 12-5104 FOR "HAND OPERATED VALVE IDENTIFICATION NUMBERS" NOTES.
- THE UNIT PREFIX DESIGNATION FOR EACH COMPONENT IDENTIFICATION NO. IS " 1 ".
LEGEND
SUPPLY
RETURN
AUXILIARY PIPING
FOR VALVE, INSTRUMENT SAMPLING, PIPE MATERIAL AND OTHER SYMBOLS NOT EXPLAINED ON THIS DWG., AND FOR MARK NUMBER CODES, SEE DWG. 12-3103 & 12-5104 (W) BY WESTINGHOUSE
ALL EQUIPMENT IS SEISMIC CLASS II EXCEPT AS NOTED
NOTE A-J/3
CAPILLARY TUBING TO BE CONNECTED TO WELL AND TEMP. BULB INSTALLED IN TEE LOCATED IN OIL RETURN PIPING TO PLANT AIR COMPRESSOR.
MATERIAL SPECIFICATION A-21 EXCEPT AS NOTED
THE UNIT PREFIX DESIGNATION FOR EACH COMPONENT IDENTIFICATION NUMBER IS "1-" UNLESS OTHERWISE NOTED.
IB—INBOARD
OB—OUTBOARD
NOTE D
ALL ITEMS IN THIS SKETCH SHOULD HAVE THE UNIT PREFIX "12-" UNLESS OTHERWISE NOTED.
REVISIONS
DESCRIPTION
FILENAME: op-1-5114.082
(native file): op-1-5114_82.cit
INDIANA MICHIGAN POWER COMPANY
DONALD C. COOK
NUCLEAR PLANT
BRIDGMAN MICHIGAN
FLOW DIAGRAM
NON ESSENTIAL
SERVICE WATER
UNIT NO. 1
DWG. NO. OP-1-5114-82
AEP SERVICE CORP.
1 RIVERSIDE PLAZA
COLUMBUS, OH 43215
SKETCH "B-5"
TYPICAL ARR'T OF PIPING AT GLYCOL CHILLER PACKAGES (SEISMIC CLASS II)
SKETCH "B-8"
SKETCH "B-9"
(2) NON-ESSENTIAL SERVICE WATER PUMPS
4500 GPM 250 HP
1800 RPM 175 FT. TDH
MAX. PUMP DISCHARGE PRESS 120 PSIG
(PP. 8N & PP-8S)
DISCHARGE TUNNEL S.C. III
INTAKE TUNNEL S.C. III
CONTROL AIR AFTERCOOLER
CONTROL AIR COMPRESSOR
PLANT AIR AFTER COOLER S.C. III
PLANT AIR COMPRESSOR S.C. III
DUPLEX STRAINER WITH AUTO. BACKWASH
MAIN TURBINE OIL TANK COOLERS SEISMIC CLASS III
(2) MAIN TURBINE ELECTRO-HYDRAULIC CONTROL UNIT FLUID COOLERS S.C. III
FEED PUMP TURBINE LUBE OIL COOLERS SEISMIC CLASS III
COOLING WATER TO BEARINGS OF FEEDWATER PUMPS
(5) GLYCOL CHILLER PACKAGES, TOTAL (10) COND. UNITS
DISCHARGE TUNNEL
EL. 566'-0"
EL. 565'-0"
EL. 591'-0"
EL. 569'-6"
TOP OF TURBINE OIL TANK EL. 617'-0"
EL. 650'-0"
EL. 609'-0"
EL. 604'-6"
EL. 573'-7"
EL. 571'-5"
SEE NOTE D
SEE NOTE A-J/3
SEE NOTE A-D/3
SEE NOTE A-A/3
SEE NOTE A-B/3
SEE NOTE A-C/3
SEE NOTE A-E/3
SEE NOTE A-F/3
SEE NOTE A-G/3
SEE NOTE A-H/3
SEE NOTE A-I/3
SEE NOTE A-K/3
SEE NOTE A-L/3
SEE NOTE A-M/3
SEE NOTE A-N/3
SEE NOTE A-O/3
SEE NOTE A-P/3
SEE NOTE A-Q/3
SEE NOTE A-R/3
SEE NOTE A-S/3
SEE NOTE A-T/3
SEE NOTE A-U/3
SEE NOTE A-V/3
SEE NOTE A-W/3
SEE NOTE A-X/3
SEE NOTE A-Y/3
SEE NOTE A-Z/3
D-50