No. 8700-RM-27F

PA 0025615

RIVER FLOW

OHIO RIVER

RIVER FLOW

COMMON HEADWALL

PEGGS RUN

VARIES WITH STORM INTENSITY

## NOTES

1. DURING NORMAL PLANT OPERATION, PRIMARY AND SECONDARY HEAT EXCHANGERS AND CHILLERS (REACTOR PLANT RIVER WATER SYSTEM (RPRW)). DISCHARGE INTO THE COOLING TOWER - CIRCULATING WATER SYSTEM. THE ALTERNATE DISCHARGE FLOW PATH SHOWN FOR THE RPRW SYSTEM CAN ONLY BE USED DURING MAINTENANCE OUTAGES. THE RPRW SYSTEM ALTERNATE DISCHARGE IS COMPRISED OF (1) COMPONENT COOLING WATER HEAT EXCHANGER. WHEN THE ALTERNATE DISCHARGE FLOW PATH IS IN SERVICE, THE NORMAL AUXILIARY INTAKE TEST LINE DISCHARGE THROUGH Ø07 WILL BE OUT OF SERVICE.

2. DURING NORMAL PLANT OPERATION, UNIT #1 MAIN PLANT FLOOR DRAINS DISCHARGE INTO THE OIL SEPARATOR (OUTFALL 303). THE BYPASS LINE AROUND THIS ONE IS TO BE USED DURING MAINTENANCE OUTAGES AND EMERGENCY CONDITIONS ONLY.

NOTE ON CHEMICALS:

1. *ETHYLENE GLYCOL USED IN DIESEL GENERATORS AND GLYCOL HEATING SYSTEM, BOTH ARE CLOSED LOOP SYSTEMS - NO BLOWDOWN.*

(2) *CLOSED LOOP CHEMICALS ARE THE SAME FOR UNIT 1 & UNIT 2*

5. *CHEMICAL ADDITIVES SHOWN IN ITALICS.*

## LEGEND

MGD. – MILLION GALLONS PER DAY

AVG. – AVERAGE LONG TERM DAILY VOLUME OF WASTEWATER IN GALLONS

MAX. – MAXIMUM DAILY VOLUME OF WASTEWATER IN GALLONS.

——— MAIN FLOW

– – – OPTIONAL FLOW

(000) – DISCHARGE NUMBER DESIGNATION IN NPDES PERMIT DESIGNATION **PERMIT NO. PA. 0025615**

D-01

| ISSUES | | | | | | | |
|---|---|---|---|---|---|---|---|
| 11 ECR 03-0017 INCORP. REDLINE MARK-UP REF. CR 03-00259. | DEH 1-14-03 D/CHK: JMP SUP: EEE 1-16-03 | 12 ECR'S 03-0141, 0142, & 0143 REF.: CA'S 03-01411-01, 02153-01, & 01555-01 | MGB 5-19-03 D/CHK: MVF SUP: PGB SNCT: PJS SUP: MDB 8-11-03 | 13 ECR 03-0405 REVISED PER ENVIRONMENTAL & CHEMISTRY MARK-UP. REF: CR-03-00137. | MGB 8-12-03 D/CHK: RJK ENG: MDB SUP: EEE 8-22-03 | 14 ECR 03-0507 REVISED PER ENVIRONMENTAL & CHEMISTRY MARK-UP. REF: CR-03-09102. | MGB 6-26-06 D/CHK: PROGRAM OWNER: SUP: |

FENOC — FIRSTENERGY NUCLEAR OPERATING COMPANY

| | | | | |
|---|---|---|---|---|
| SCALE NTS | DATE 3-14-95 | ARCH. APP. | DNVR. APP. S.RODGERS | FINAL APP. FOR ISSUE B.DRUGA |
| | DRAWN BY D.REARDON | ELECT. APP. | | |
| | DFG./CHK. | MECH. APP. | | |
| | ENGR./CHK. D.HOFFMAN | CIVIL APP. | | |

BEAVER VALLEY POWER STATION UNIT 1 &2

WASTE WATER FLOW DIAGRAM

| D.F.E. NO. | STA. NO. 100013 | DWG. NO. 8700-RM-27F | REV. 14 |
|---|---|---|---|
| D.C.P. NO. | | AA | |

28-JUN-2006 11:32 M:\u2\rm0270f0.d09

PREPARED ON THE BVPS CAEDDI SYSTEM

TAG128995 rm0270f0 06282006 11:33:01 AM