



- NOTES:
1. ALL COMPONENT MARK NUMBERS PREFIXED 46 UNLESS OTHERWISE NOTED.
  2. ALL MANUAL VALVES PREFIXED ESW UNLESS OTHERWISE NOTED.
  3. ALL TURT CONNECTIONS (1) ARE PIPING CLASS IC-NB BEGINNING AT THE DOWNSTREAM SIDE OF THE REDUCER TO THE 3/8" TURT CONNECTION.
  4. VALVES 46ESW-640, 643, 646, 649 CAN NOT BE CLOSED WITH 46FE-101A1, B1, A2, B2 INSTALLED.
  5. VALVE INTERNALS REMOVED PER ER-JF-03-00959.

- REFERENCES:
1. FLOW DIAGRAM SYMBOLS, FM-14A.
  2. FLOW DIAGRAM SERVICE WATER SYSTEM 46, FM-46A.
  3. FLOW DIAGRAM REACTOR BLDG. COOLING WATER FM-15A.
  4. FLOW DIAGRAM REACTOR BLDG. SERVICE WATER COOLING FB-10H.
  5. FLOW DIAGRAM TURBINE BLDG. SERVICE WATER COOLING FB-18H.
  6. FLOW DIAGRAM CONTROL ROOM AREA SERVICE & CHILLED WATER FB-35E.

SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

- SERVICE WATER SYSTEMS AMM-11
- EMERGENCY DIESEL GENERATOR SYSTEM AMM-12
- HEATING, VENTILATION AND AIR CONDITIONING SYSTEMS AMM-16

NOTES:

1. ALL VALVES PREFIXED 66 SWS.
2. SUBSTITUTE ALPHABETICAL DESIGNATION OF INDIVIDUAL UNIT COOLER FOR (\*)

DETAIL TYP. FOR COOLERS 66UC-22A,B,C,D,G,H,J,K

UNIT COOLER	66FE	66FV
66UC-22A	110	110
66UC-22B	111	111
66UC-22C	112	112
66UC-22D	113	113
66UC-22E	116	116
66UC-22H	117	117
66UC-22J	118	118
66UC-22K	119	119

NOTES:

1. ALL MANUAL VALVES PREFIXED 46 SWS.
2. SUBSTITUTE ALPHABETICAL DESIGNATION OF INDIVIDUAL UNIT COOLER FOR (\*)
3. SEE FB-10H FOR LINE DESIGNATIONS.

DETAIL TYP. 66UC-22A,B,C,D,G,H,J,K

NOTE: 66UC-22K DOES NOT HAVE UNIT COOLER VENT VALVE 46SVS-414K

NOTES:

1. ALL MANUAL VALVES PREFIXED 46 SWS.
2. SUBSTITUTE ALPHABETICAL DESIGNATION OF INDIVIDUAL UNIT COOLER FOR (\*)
3. SEE FB-10H FOR LINE DESIGNATIONS.

DETAIL TYP. 66UC-22E,F

46	INCORPORATED DRN-05-02551 ER-JF-03-00959	12/7/05	RVB	KB	DJC
47	INCORPORATED DRN-05-02353 ER-JF-03-00959	8/16/05	RVB	PD	PJG

REV	DATE	DESCRIPTION	DWN	CHK	REV	APP
45	8/16/05	AS BUILT PER DCR-02-015	KMB	JJB	---	SKK
44	10/06/05	AS BUILT PER MOD NO JD-99-015	KMB	PJD	---	SKK
43	5/24/05	AS BUILT PER MOD NO JE-01-029	RVB	PJB	---	SKK
42	2/18/05	AS BUILT PER MOD NO JE-03-143	SMC	RVB	---	SKK
41	6/26/05	AS BUILT PER DCR-00-153	PJB	KMB	---	SKK
40	3/29/05	AS BUILT PER DCR-00-038	KMB	RVB	---	SKK
39	3/29/05	AS BUILT PER DCR-99-057	PJB	RVB	---	SKK

THE ORIGINAL TRACING FOR THIS DRAWING WAS PREPARED BY: STONE & WEBSTER CORP.

A RECORD OF THE ORIGINAL DOCUMENT WITH APPROVAL INITIALS/SIGNATURES AND THE DATE OF ANY SUBSEQUENT REVISIONS MUST BE MAINTAINED IN THE FILES OF THE NEW YORK POWER AUTHORITY.

THIS DOCUMENT WAS ELECTRONICALLY STORED AT REVISION 7

GA CAT. 1, II/III

NUCLEAR SAFETY RELATED

JAMES A. FITZPATRICK  
NUCLEAR POWER PLANT

FLOW DIAGRAM  
EMERGENCY SERVICE WATER  
SYSTEM 46 & 15

Entergy  
Nuclear Northeast

SCALE: NONE  
DWG NO: FM-46B  
SHEET 1 OF 1

REV: 48

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	3-3-06					
REVISIONS						
LRA-FM-46B-0						
LRA-FM-46B_48.DGN						
LRA-FM-46B_48.CAL						