

GENERAL NOTES

PIPE MATERIAL SCHEDULE				
PIPE DESIGNATION	INSTALLATION	CONDENSED PIPE MATERIAL DESIGNATION (SEE SPECS. FOR DETAILS)	SPECIFICATION REFERENCE	
SERVICE (CHMS) CHILLED WATER (CHMS / CHWR)	ABOVE GRADE	DEPENDING ON SIZE: CARBON STEEL, SCHEDULE 40 or STANDARD WEIGHT (.375") UNDER 4" DIA. COPPER MAY BE SUBSTITUTED	15106	15250
	BELOW GRADE or EXTERIOR	DEPENDING ON SIZE: CARBON STEEL, SCHEDULE 40 or STANDARD WEIGHT, PRE-FABRICATED WITH FACTORY APPLIED INSULATION, PROTECTIVE FILAMENT WOUND POLYESTER RESIN/FIBERGLASS (FRP) OR HDPE JACKET DEPENDING ON SIZE: CARBON STEEL, SCHEDULE 40 or STANDARD WEIGHT (.375") UNDER 4" DIA. COPPER MAY BE SUBSTITUTED	15106	15106
HEATING HOT WATER (HWS / HWR)	ABOVE GRADE	DEPENDING ON SIZE: CARBON STEEL, SCHEDULE 40 or STANDARD WEIGHT, PRE-FABRICATED WITH FACTORY APPLIED INSULATION, PROTECTIVE FILAMENT WOUND POLYESTER RESIN/FIBERGLASS (FRP) OR HDPE JACKET DEPENDING ON SIZE: CARBON STEEL, SCHEDULE 40 or STANDARD WEIGHT (.375") UNDER 4" DIA. COPPER MAY BE SUBSTITUTED	15106	15250
	BELOW GRADE	DEPENDING ON SIZE: CARBON STEEL, SCHEDULE 40 or STANDARD WEIGHT, PRE-FABRICATED WITH FACTORY APPLIED INSULATION, PROTECTIVE FILAMENT WOUND POLYESTER RESIN/FIBERGLASS (FRP) OR HDPE JACKET DEPENDING ON SIZE: CARBON STEEL, SCHEDULE 40 or STANDARD WEIGHT (.375") UNDER 4" DIA. COPPER MAY BE SUBSTITUTED	15106	15106
COOLING TOWER WATER (TWS / TWR)	ABOVE GRADE	DEPENDING ON SIZE: CARBON STEEL, SCHEDULE 40 or STANDARD WEIGHT (.375") UNDER 4" DIA. COPPER MAY BE SUBSTITUTED	15106	15250
	BELOW GRADE	DEPENDING ON SIZE: CARBON STEEL, SCHEDULE 40 or STANDARD WEIGHT WHICH IS EXTERNALLY COATED WITH POLYESTER (FRP) OR HDPE CLADDING	15106	NA
PROCESS COOLING CONDENSER WATER (CWS / CWR)	ABOVE GRADE	DEPENDING ON SIZE: CARBON STEEL, SCHEDULE 40 or STANDARD WEIGHT (.375") UNDER 4" DIA. COPPER MAY BE SUBSTITUTED	15106	15250
	BELOW GRADE	DEPENDING ON SIZE: CARBON STEEL, SCHEDULE 40 or STANDARD WEIGHT WHICH IS EXTERNALLY COATED WITH POLYESTER (FRP) OR HDPE CLADDING	15106	NA
PROCESS WATER (PW)	ABOVE GRADE	DEPENDING ON SIZE: CARBON STEEL, SCHEDULE 40 or STANDARD WEIGHT (.375") UNDER 4" DIA. COPPER MAY BE SUBSTITUTED	15106	NA
	BELOW GRADE	FOR ALL SIZES: CARBON STEEL, SCHEDULE 40, PRE-FABRICATED WITH FACTORY APPLIED INSULATION, COMPLETE WITH PROTECTIVE FRP JACKET		
POTABLE, DOMESTIC SANITARY WATER (HOT or COLD) (SMH / SWC)	ABOVE GRADE	4" and SMALLER: TYPE L or M, COPPER TUBING 6" and LARGER: CARBON STEEL, SCHEDULE 40 or STD. WEIGHT (.375") DEPENDING ON SIZE	15103	
	BELOW GRADE	4" and SMALLER: TYPE K, COPPER TUBING 6" and LARGER: CARBON STEEL, SCHEDULE 40 or STD. WEIGHT (.375") DEPENDING ON SIZE	15103 & 02667	
DEIONIZED WATER (DIS / DIR)	ABOVE GRADE	4" and SMALLER: TYPE L or M, COPPER TUBING 6" and LARGER: CARBON STEEL, SCHEDULE 40 or STD. WEIGHT (.375") DEPENDING ON SIZE	15104	15250
	BELOW GRADE	DOUBLE CONTAINED		
COMPRESSED (PLANT) AIR (CA)	ABOVE GRADE	COPPER TUBE OR STAINLESS STEEL (OPTIONAL SCHEDULE 40 CARBON STEEL MAY BE SUBSTITUTED AS PER 2.1A, Par.3)	15112	NA
	BELOW GRADE	PRE-FABRICATED CARBON STEEL WITH FACTORY APPLIED FRP CLADDING		
NATURAL GAS (NG)	ABOVE GRADE	<4" SIZE: CS, SCH 40, ASTM A53, TC >4" SIZE: CS, SCH 40, ASTM A53, BW/FL JOINTS.	15108	
	BELOW GRADE	POLYETHYLENE	2820	
PROCESS DRAIN (PD)	ABOVE GRADE	2 1/2" and SMALLER, TYPE L COPPER TUBE 3" and LARGER, SCHEDULE 40 CARBON STEEL	15108	NA
	BELOW GRADE	2 1/2" and SMALLER, TYPE K COPPER TUBE 3" and LARGER, SCHEDULE 40 CARBON STEEL		
SANITARY SEWER, WASTE & VENT (SS, W, V)	ABOVE GRADE	<1-1/2" SIZES: COPPER DWV TUBE, ASTM B106, SWEAT JOINTS >1-1/2" SIZES: CI, SW, ASTM B106, NO-HUB & COUPLING	15109	
	BELOW GRADE	ALL SIZES: CI, SW, ASTM A888, HUB & SPIGOT.		
STORM DRAIN (SD, OFL, FWL)	ABOVE GRADE	<1-1/2" SIZES: COPPER DWV TUBE, ASTM B106, SWEAT JOINTS >1-1/2" SIZES: CI, SW, ASTM B106, NO-HUB & COUPLING	15109	
	BELOW GRADE	ALL SIZES: CI, SW, ASTM A888, HUB & SPIGOT.		
FIRE PROTECTION WATER (FP, or SWC)	ABOVE GRADE	BY NEXUS		
	BELOW GRADE	4" and SMALLER: TYPE K, COPPER TUBING 6" and LARGER: CARBON STEEL, SCHEDULE 40 or STD. WEIGHT (.375") DEPENDING ON SIZE	15103 & 02667	

NOTES:

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PROJECT NAME:
SPALLATION NEUTRON SOURCE

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	H	X	X	8	8000	1	1	1	G	U
51	52	53	WBS	1.8						
NC	NA									

RPE

BRUCE W. JOHNSON
REGISTERED ENGINEER
No. 001018
STATE OF TENNESSEE

DSN B. JOHNSON 5/15/01
DRW J. STEIN 5/15/01
CHK B. JOHNSON 5/15/01
DEPT
PE [Signature] 5/15/01
PJ [Signature] 5/15/01
REC

REV. 5/14/01
LUTB [Signature] 10/20/01

REV	DATE	DESCRIPTION	DSN	CHK	DEPT	DATE	PE	DATE	PJ	DATE	REQ	DATE	UTB	DATE	RPE	RPE NO	DATE	SC	AW	WRS	RL	WRS	BNJ	---	WRS	---	WAS	ST	CV	EC	EE	EM	IE	M	PD	SE	AR		
0		CERTIFIED FOR CONSTRUCTION -- MAY 15, 2001																																					

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SECTION AND DETAIL KEY

THIS DOCUMENT CONTROLLED BY

CHANGE CONTROL SYSTEM 4

ENGINEERING PROCEDURE SNS-ENG-0001