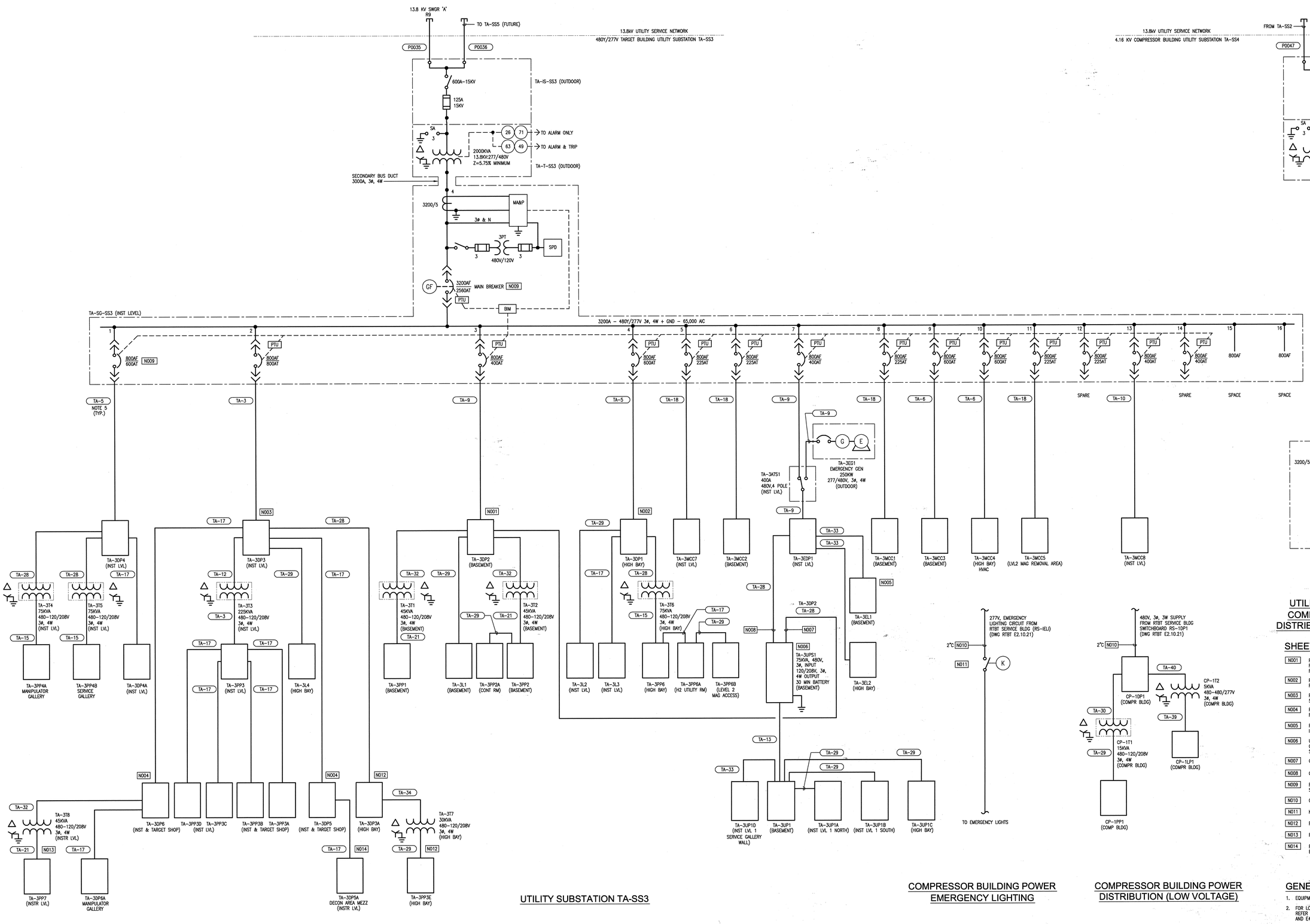

UTILITY SUBSTATION TA-SS3

COMPRESSOR BUILDING POWER
EMERGENCY LIGHTING

COMPRESSOR BUILDING POWER
DISTRIBUTION (LOW VOLTAGE)

UTILITY SUBSTATION TA-SS4
COMPRESSOR BLDG. POWER DISTRIBUTION (MEDIUM VOLTAGE)

SHEET KEYNOTES:

- N001 PANEL TA–3DP2 SUPPLIES BASEMENT LIGHTING, CONVENIENCE RECEPTACLES, MERCURY REMOVAL SYSTEM HEATER, TRITIUM–XENON REMOVAL SYSTEM HEATER, ROLL–UP DOOR AND MISC. LOADS.
- N002 PANEL TA–3DP1 SUPPLIES INSTRUMENT LEVEL/MEZZANINE RECEPTACLES AND LIGHTING.
- N003 PANEL TA–3DP3 SUPPLIES HIGH BAY LIGHTING, RECEPTACLES, 50T BRIDGE CRANE AND POWER TO INSTRUMENT LEVEL SHOPS SUB PANELS.
- N004 PANEL TA–3DP5 AND TA–3DP6 ARE FOR SUPPLYING POWER TO FUTURE INSTRUMENT LEVEL SHOPS.
- N005 PANEL TA–3EL1 AND TA–3EL SUPPLIES EMERGENCY LOADS INCLUDING MUA–TA–01, 02, 03 & 04 CONTROLLED BY VFD.
- N006 UPS MAY BE MULTI–COMPONANT EQUIPMENT. POWER AND CONTROL INTERCONNECTIONS FOR THESE COMPONANTS SHALL BE BY CONTRACTOR.
- N007 CONNECT TO UPS BY–PASS TRANSFORMER (ISO XFMR).
- N008 CONNECT TO RECTIFIER/CHARGER.
- N009 FOR MAIN AND FEEDER BREAKERS, THE SENSOR RATING IS SAME AS THE BREAKER FRAME RATING.
- N010 CONDUIT ONLY. CONDUCTORS IN SITE UTILITIES CONTRACT.
- N011 KEY SWITCH – SINGLE POLE, 20A, 277V
- N012 PANELS TA–3DP3A & TA–3PPE FOR PORTABLE MANIPULATORS
- N013 PANEL TA–3PP7 FOR FUTURE REMOTE HANDLING CONTROL ROOM.
- N014 PANEL TA–3DP5A FOR IN CELL CRANE, SERVO MANIPULATOR BRIDGE AND SERVO MANIPULATOR ARM.

GENERAL NOTES:

1. EQUIPMENT/CABLE SHOWN WITH DASHLINE IS FUTURE EQUIPMENT.
2. FOR LOCATIONS OF EQUIPMENT SHOWN ON THIS SINGLE LINE REFER TO DWG'S E4.02.41, 42, 43, 44, 46, 47, 49, E4.01.50, AND E4.01.56.
3. SITE UTILITIES–ELECTRICAL SINGLE LINE DIAGRAM REFER TO DWG UEL7.61.01
4. FOR PANEL SCHEDULES SEE DWGS E9.21.30 THROUGH E9.21.36.
5. (TA–XX) SYMBOL DENOTES TAG NO. REFER TO FEEDER SCHEDULE DWG E9.40.30

108030700-E8E-8700-A012

Knight Jacobs
Knight/Jacobs Joint Venture
701 Scarboro Road, MS 8253
Oak Ridge, TN 37830
865-241-9433
fax 865-241-3400

KNIGHT
Knight Advanced Technology
240 West Randolph Street
Chicago, IL 60661

UT-BATTELLE
Oak Ridge National Laboratory
managed for the DEPARTMENT OF ENERGY under
U.S. GOVERNMENT contract DE–AC05–000R22725
UT-BATTELLE, LLC. ■ Oak Ridge, Tennessee

PROJECT NAME:
SPALLATION NEUTRON SOURCE
TARGET BUILDING
ELECTRICAL SINGLE LINE DIAGRAM
UNIT SUBSTATION - TA-SS3 & TA-SS4

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	E	X	X	8	8700		1	1	P	U
51	52	53	WBS							REV
NC	NA		1.8.3.7							0

E2.10.32

REV	CHANGE TYPE	CHANGE CONTROL SYSTEM	CHANGE REQUEST NUMBER	DESCRIPTION	DSN	CHK	DEPT	DATE	PE	DATE	PJ	DATE	REQ	DATE	UTB	DATE	RPE	RPE NO	DATE	ST	CV	EC	EE	EM	IE	M	PD	SE	AR
0				CERTIFIED FOR CONSTRUCTION – 10/26/01	HG	VGS											VGS	00106009	10/26/01	REW	–	WRS	AK	WRS	BWJ	–	MP	–	ED

REVISION OR ISSUE PURPOSE — REVISION APPROVALS — SQUAD CHECK

DSN	H.GROVER	10/26/01
DRW	L. MAKOVSKY	10/26/01
CHK	V.STEFFEN	10/26/01
DEPT		
PE		11/13/01
PJ		11/14/01
REQ		
UTB		11/14/01

RPE — REV. 0 — DATE 11-13-01 — DRAWING APPROVALS

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NUMBER OF SECTION OR DETAIL
DRAWING ON WHICH SECTION OR DETAIL IS SHOWN OR TAKEN
SECTION AND DETAIL KEY

THIS DOCUMENT CONTROLLED BY
CHANGE CONTROL SYSTEM 3
ENGINEERING PROCEDURE SNS-ENG-G001

Date: 11/13/2001 Time: 13:24:21
Username: MAKOVSKVL
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