

# DEPARTMENT OF ENERGY

# SPALLATION NEUTRON SOURCE

OAK RIDGE, TENNESSEE

## DUMP BUILDINGS

### DCN T5-025 - MAY 3, 2002

**ANL**  
ARGONNE  
NATIONAL LABORATORY  
ARGONNE, ILLINOIS

**BNL**  
BROOKHAVEN  
NATIONAL LABORATORY  
BROOKHAVEN, NEW YORK

**LANL**  
LOS ALAMOS  
NATIONAL LABORATORY  
LOS ALAMOS, NEW MEXICO

**LBNL**  
LAWRENCE BERKELEY  
NATIONAL LABORATORY  
BERKELEY, CALIFORNIA

**ORNL**  
OAK RIDGE  
NATIONAL LABORATORY  
OAK RIDGE, TENNESSEE

**JLab**  
JEFFERSON  
LABORATORY  
NEWPORT NEWS, VIRGINIA

**CONTRACT NO. 00F-1837-2**

WBS NO. 1.8.3.10 DUMP BUILDINGS BLDGS. 8510, 8520 AND 8530

**KNIGHT/JACOBS JOINT VENTURE**

CONSTRUCTION MANAGEMENT  
KNIGHT/JACOBS JOINT VENTURE  
SNS PROJECT CENTER  
701 SCARBORO ROAD  
OAK RIDGE, TN 37830

ARCHITECTURE & ENGINEERING  
KNIGHT ADVANCED TECHNOLOGY  
549 W. RANDOLPH ST. CHICAGO, IL 60661  
4710 E. ELWOOD ST., SUITE 9 PHOENIX, AZ 8500  
1453 MISSION ST. SAN FRANCISCO, CA 94103

ENGINEERING  
SVERDRUP CIVIL, INC.  
TWO CENTER PLAZA  
BOSTON, MA 02108

CRYOGENICS  
SVERDRUP TECHNOLOGY, INC.  
600 WILLIAM NORTHERN BLVD.  
TULLAHOMA, TN 37388

CIVIL ENGINEERING & LANDSCAPE  
BARGE WAGGONER SUMNER AND CANNON  
1093 COMMERCE PARK DRIVE, SUITE 500  
OAK RIDGE, TN 37830

HOT CELL ENGINEERING  
MERRICK & COMPANY  
2450 SOUTH PEDRIA ST.  
AURORA, CO 80014

FIRE PROTECTION  
NEXUS TECHNICAL SERVICES  
730 HIGHWAY 321 NORTH, SUITE 106 LENOIR CITY, TN 37771  
125 FAIRFIELD WAY, SUITE 380 BLOOMINGDALE, IL 60108

GENERAL			
SNS DRAWING NUMBER	SHEET NO.	REV.	SHEET TITLE
108031000-G8E-8500-A001	G0.00.28	2	DUMP BUILDINGS - COVER SHEET AND DRAWING INDEX
HVAC (ENVIRONMENTAL)			
SNS DRAWING NUMBER	SHEET NO.	REV.	SHEET TITLE
108031000-HBE-8520-A003	H2.03.52	2	RING INJECTION BUILDING - HELIUM SYSTEM - PLAN VIEW
108031000-HBE-8520-A008	H2.04.52	1	RING INJECTION BUILDING - DEIONIZED AND CHILLED WATER - PLAN VIEW
108031000-HBE-8520-A009	H5.10.38	1	RING INJECTION BUILDING - BDCE & HOG SYSTEM - SECTIONS & DETAILS
108031000-HBE-8520-A010	H5.10.39	1	RING INJECTION BUILDING - DEIONIZED AND CHILLED WATER - SECTIONS & DETAILS
108031000-HBE-8520-A011	H5.10.40	1	RING INJECTION BUILDING - DEIONIZED AND CHILLED WATER - SECTIONS & DETAILS
108031000-HBE-8520-A012	H5.10.41	1	RING INJECTION BUILDING - DEIONIZED AND CHILLED WATER - SECTIONS & DETAILS
PROCESS (TARGET UTILITIES)			
SNS DRAWING NUMBER	SHEET NO.	REV.	SHEET TITLE
106060000-JBE-8520-A500	JBE8520A500	2	RING INJECTION BUILDING - BDCE SYSTEM - PLAN VIEW
106060000-JBE-8520-A501	JBE8520A501	2	RING INJECTION BUILDING - BDCE SYSTEM - SECTIONS & DETAILS
106060000-JBE-8520-H500	JBE8520H500	2	RING INJECTION BUILDING - HELIUM SYSTEM - PLAN VIEW
106060000-JBE-8520-H501	JBE8520H501	2	RING INJECTION BUILDING - HELIUM SYSTEM - SECTIONS & DETAILS
PLUMBING			
SNS DRAWING NUMBER	SHEET NO.	REV.	SHEET TITLE
108031000-PBE-8520-A003	P2.03.52	2	RING INJECTION BUILDING - HELIUM/NITROGEN SYSTEM - PLAN VIEW
108031000-PBE-8520-A007	P5.20.36	2	RING INJECTION BUILDING - HELIUM/NITROGEN SYSTEM - SECTIONS & DETAILS

NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY, COMPLETENESS OR USEFULNESS OF THE INFORMATION OR STATEMENTS CONTAINED IN THESE DRAWINGS, OR THAT THE USE OR DISCLOSURE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS DISCLOSED IN THESE DRAWINGS MAY NOT VIOLATE PATENT RIGHTS OF OTHERS. NO LIABILITY IS ASSUMED WITH RESPECT TO THE USE OF, OR FOR DAMAGES RESULTING FROM THE USE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS DISCLOSED IN THESE DRAWINGS. DRAWINGS MADE AVAILABLE FOR INFORMATION TO BODIES ARE NOT TO BE USED FOR OTHER PURPOSES AND ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING CONTRACTOR.

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 4

ENGINEERING PROCEDURE SNS-ENG-0001

REV.	DATE	DESCRIPTION	DSN	CHK	DEPT	DATE	PE	DATE	PJ	DATE	REQ	UTB	DATE	RPE	DATE	ST	CV	EC	EE	EM	IE	M	PD	SE	AR
2	C	3	25	DCN T5-025 - 5/3/02	BKS	BKS																			
1	C	3	17	DCN T5-017 - 2/8/02	BKS	JJB	CLG	2/13	JRL	2/13															
0				CERTIFIED FOR CONSTRUCTION - 8/3/01	BKS	JJB																			

REV.	DATE	DESCRIPTION	UTB	DATE	RPE	DATE

108031000-G8E-8500-A001

**KNIGHT**  
Knight Advanced Technology  
701 Scarboro Road, MS 8253  
Oak Ridge, TN 37830  
985-241-3433  
Fax 985-241-3400

**UT-BATTELLE**  
Oak Ridge National Laboratory  
managed for the DEPARTMENT OF ENERGY under  
U.S. GOVERNMENT CONTRACT DE-AC05-00OR22725  
UT-BATTELLE, LLC • Oak Ridge, Tennessee

PROJECT NAME:  
**SPALLATION NEUTRON SOURCE**  
**DUMP BUILDINGS**  
**COVER SHEET AND DRAWING INDEX**

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	G	X	X	8	8500		1	1	G	U
51	52	53	WBS	REV						
NC	NA		1.8.3.10	G0.00.28	1					

AutoCAD