

| REVISIONS | | | |
|-----------|-------------|------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| | | | |

UNCONTROLLED COPY WILL NOT BE UPDATED

CNSI SAFETY REVIEW
BOARD APPROVAL

BY md wletcher

DATE 1/31/89

REVISION STATUS

| | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|
| SHEET | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | |
| REV. | - | - | - | - | - | | | | | | | | | | | | |
| SHEET | | | | | | | | | | | | | | | | | |
| REV. | | | | | | | | | | | | | | | | | |

| | | | |
|---------------------------------|------------------------|---|---------------------------|
| PREPARED <u>W. J. Paul</u> | DATE <u>1-31-89</u> | CHEM - NUCLEAR SYSTEMS, INC. | |
| ALARA <u>md wletcher</u> | <u>1/31/89</u> | TITLE | |
| ENGINEER <u>W. J. Paul</u> | <u>1/31/89</u> | RADIATION WORK PERMITS APPLICATION AND USE | |
| QUALITY <u>Carl J. H. H.</u> | <u>1/31/89</u> | 9210080220 920226 PDR FOIA FRANCES91-509 PDR | |
| APPROVED <u>W. J. Paul</u> | <u>1/31/89</u> | SAFETY <u>W. J. Paul</u> B. H. H. for <u>W. J. Paul</u> 1/31/89 | DOCUMENT NO. FS-RP-012 |
| | | REV. - | SHEET 1 |

TABLE OF CONTENTS

| | <u>PAGE NO.</u> |
|--|-----------------|
| 1.0 SCOPE | 3 |
| 1.1 Purpose. | 3 |
| 1.2 Applicability | 3 |
| 2.0 REFERENCES | 3 |
| 3.0 EQUIPMENT AND MATERIALS | 3 |
| 4.0 INSTRUCTION COLLECTION INSTRUCTION | 3 |
| 5.0 RECORDS | 4 |
| APPENDIX A - Forms | 5 |

DOCUMENT

FS-RP-012

REV.

--

SHEET

2

1.0 SCOPE

1.1 Purpose

The purpose of this instruction is to describe the contents and use of the Radiation Work Permits (RWP). The Radiation Safety Officer (RSO)/Radiological Control Supervisor (RCS) (or designee) shall issue a RWP for any job or work in a posted area and for which no standard written CNSI procedure already exists. The RWP is used to control personnel exposures to radiation by establishing the radiation protection requirements and any radiological monitoring and sampling necessary.

1.2 Applicability

This procedure applies to CNSI personnel and subcontractors who will enter the radiologically controlled area or receive occupational radiation exposure at designated field project sites.

2.0 REFERENCES

- 2.1 CNSI Procedure CN-AD-020, "Chem-Nuclear (CNSI) Health Physics Policy Manual"
- 2.2 CNSI Procedure CN-AD-019, "Chem-Nuclear (CNSI) ALARA Policy."

3.0 EQUIPMENT AND MATERIALS

- 3.1 Radiation Work Permit Forms (Appendix A)

4.0 INSTRUCTIONS

- 4.1 All work in a posted radiation/contamination area for which no standard written CNSI procedure already exists shall be authorized by the RSO/RCS (or designee) in advance by issue of an RWP. An RWP may be authorized by any member of the Health Physics staff with verbal concurrence of the RSO/RCS (or designee) Reference 2.1 or a member of the CNSI ALARA Committee per Reference 2.2.
- 4.2 A RWP (Appendix A) may be initiated by any individual responsible for work to be performed.
- 4.3 The RSO/RCS or designee shall review previous data and determine the current radiological status of the area prior to approval and issuance of a RWP. A re-survey of the area may be necessary if knowledge of radiation levels is inadequate to complete all sections of the RWP. Any further Health Physics survey requirements shall be specified on the RWP.
- 4.4 A radiation exposure estimate shall be made based upon the work requirements submitted to the RSO/RCS.
- 4.5 Any special protective gear and radiation monitoring equipment requirements determined necessary shall be assembled by the Health Physics staff.

- 4.6 Personnel involved in performing the work shall be given a pre-job briefing by the RSO/RCS (or designee) to allow them to understand work restrictions and the use of special protective equipment. Discussions shall include: work scope, dosimetry and protective clothing requirements, survey results, stay time limits and emergency actions.
- 4.7 Work detailed on a RWP shall begin only after the above requirements have been met.
- 4.8 The RWP shall contain details of all required protection procedures and may identify the specific personnel to be involved (including Health Physics staff).
- 4.9 Those personnel listed on the RWP shall indicate by their counter-signature that they are aware of the instructions and conditions of the RWP and that they have received and understood the necessary briefing.
- 4.10 The RWP may be terminated weekly as specified by the RSO/RCS and shall be terminated if radiological conditions change or the scope of work changes.

5.0 RECORDS

The terminated RWPs and all forms generated by this procedure shall be maintained throughout the duration of the project and then retained in the permanent project file.

DOCUMENT

FS-RP-012

REV.

-

SHEET

4

APPENDIX A
RADIATION WORK PERMIT FORMS
(2 Pages)

DOCUMENT

FS-RP-012

REV.

-

SHEET

5

CNSQ 1002/8-78

Chem-Nuclear Systems, Inc.

RADIATION WORK PERMIT
(RWP)

RWP Title _____

RWP # _____

Project # _____

Project _____

Initiated by _____

Location _____

Work Scope _____

Date _____

MINIMUM REQUIREMENTS FOR WORKING IN THIS AREA

| Head Covering | Protective Clothing (Anti-C's) Body Covering | Hands | Feet |
|---------------------|---|-------------------------|-------------------|
| ____ Hood | ____ Coveralls | ____ Surg. Gloves | ____ Shoe Covers |
| ____ Cap | ____ Plastic Suit | ____ Rubber Gloves | ____ Rubbers |
| ____ Other: _____ | ____ Other: _____ | ____ Other: _____ | ____ Other: _____ |
| ____ Dosimeters | ____ Respirator Protection | ____ Other Requirements | |
| ____ TLD | ____ Particulate | ____ Half Face | ____ |
| ____ SRD | ____ Vapor | ____ Full Face | ____ |
| ____ Other: _____ | ____ Other: _____ | ____ Air Fed | ____ |
| ____ Safety | SPECIAL WORK INSTRUCTIONS _____ | | |
| ____ Safety Shoes | _____ | | |
| ____ Hard Hat | _____ | | |
| ____ Safety Glasses | _____ | | |
| ____ Other _____ | _____ | | |

RADIATION/CONTAMINATION CONDITIONS IN THE WORK AREA

| General Area Radiation Levels | | "Hot Spots" | |
|--|-------------------|--|------------|
| ____ mR/hr Location _____ | ____ | ____ mR/hr Location _____ | ____ |
| ____ mR/hr Location _____ | ____ | ____ mR/hr Location _____ | ____ |
| Typical Loose Contam. (dpm/100 cm ²) | | Maximum Contam. (dpm/100 cm ²) | |
| ____ Beta/Gamma | ____ Alpha | ____ Beta/Gamma | ____ Alpha |
| Airborne Levels (MPC) | Location(s) _____ | _____ | |
| Typical _____ | Note(s) _____ | _____ | |
| Maximum _____ | _____ | _____ | |
| Survey(s) # _____ | _____ | _____ | |
| _____ | _____ | _____ | |
| _____ | _____ | _____ | |

PRE-JOB CONFERENCE HELD

Date/Time _____

HP Tech _____

RCS Approval _____

TERMINATION OF RWP

Date/Time _____

HP Tech _____

RCS Approval _____

FS-RP-012, APPENDIX A

Page 1

