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40 CFR Part 61 National Emission Standards for Hazardous Air Pollutants

REPORT ON COMPLIANCE WITH

THE CLEAN AIR ACT LIMITS FOR RADIONUCLIDE EMISSIONS

FROM THE COMPLY CODE - V1.6.

Prepared by:

NIST NBSR Gaithersburg, MD

D.R. Brown x5810

Prepared for:

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12 www. 3/18-02 3-18-02

3/18/ 2 9:18

COMPLY: V1.6.

2001 effluents

SCREENING LEVEL 4

DATA ENTERED:

	Release Rate
Nuclide	(curies/YEAR)
AR-41	8.810E+02
H-3 V	V 1.197E+03

Release height 30 meters.

Building height 20 meters.

The source and receptor are not on the same building.

Building width 100 meters.

Building length 100 meters.

STACK DISTANCES, FILE: wind2001

	/
	Distance
DIR	(meters)
	
N	1950.0
NNE	1410.0
NE	1380.0
ENE	1320.0
E	720.0
ESE	540.0
SE	495.0
SSE .	615.0
S	1260.0
SSW	1350.0
SW	480.0
WSW	400.0
W	400.0
WNW	400.0
NW	500.0
NNW	870.0

3/18/ 2 9:18

COMPLY: V1.6.

WINDROSE DATA, FILE: wr2001

Source of wind rose data: from NBSR-9 1960-1986 Dates of coverage: 1960-1986 Wind rose location: nat'l airport Distance to facility: 20 mi

Percent calm: 0.03

Wind		Speed
FROM	Frequency	(miles/hr)
N	0.050	10.00
NNE	0.050	11.00
NE	0.050	10.00
ENE	0.040	10.00
E	0.030	9.00
ESE	0.020	9.00
SE	0.030	9.00
SSE	0.050	9.00
S	0.110	10.00
SSW	0.120	10.00
SW	0.060	8.00
WSW	0.040	8.00
W	0.040	9.00
WNW	0.090	13.00
NW	0.110	11.00
NNW	0.080	11.00

He produces his own VEGETABLES at home. He produces his own MILK at home. He produces his own MEAT at home.

NOTES :

The receptor exposed to the highest concentration is located 495. meters from the source in the SE sector.

He produces his own VEGETABLES at his home.

He produces his own MEAT at his home.

He produces his own MILK at his home.

Input parameters outside the "normal" range:

RESULTS:

Effective dose equivalent: 0.6 mrem/yr.

*** Comply at level 4.

This facility is in COMPLIANCE.

It may or may not be EXEMPT from reporting to the EPA.

You may contact your regional EPA office for more information.

********* END OF COMPLIANCE REPORT **********

2-11- U3

COMPLY: V1.6.

40 CFR Part 51 National Emission Standards for Hazardous Air Pollutants

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REPORT ON COMPLIANCE WITH

THE CLEAN AIR ACT LIMITS FOR RADIONUCLIDE EMISSIONS

FROM THE COMPLY CODE - V1.6.

Prepared by:

NIST NBSR Gaithersburg, MD

D.R. Brown x5810



CY 2002

SCREENING LEVEL 4

DATA ENTERED:

	Release Rate
Nuclide	(curies/YEAR)
AR-41	1.171E+03
H-3 V	7.470E+02

Release height 30 meters.

Building height 20 meters.

The source and receptor are not on the same building.

Building width 100 meters.

Building length 100 meters.

STACK DISTANCES, FILE: wind2001

Distance DIR (meters) - - -_____ N 1950.0 NNE 1410.0 NE 1380.0 ENE 1320.0 Ε 720.0 ESE 540.0 SE 495.0 SSE 615.0 S 1260.0 SSW 1350.0 SW 480.0 WSW 400.0 W 400.0 WNW 400.0 NW 500.0 NNW 870.0

2/11/2003 11:28

COMPLY: V1.6.

WINDROSE DATA, FILE: wr2001

Source of wind rose data:from NBSR-9 1960-1986Dates of coverage:1960-1986Wind rose location:nat'l airportDistance to facility:20 mi

Percent calm: 0.03

Wind		Speed
FROM	Frequency	(miles/hr)
N	0.050	10.00
NNE	0.050	11.00
NE	0.050	10.00
ENE	0.040	10.00
E	0.030	9.00
ESE	0.020	9.00
SE	0.030	9.00
SSE	0.050	9.00
S	0.110	10.00
SSW	0.120	10.00
SW	0.060	8.00
WSW	0.040	8.00
W	0.040	9.00
WNW	0.090	13.00
NW	0.110	11.00
NNW	0.080	11.00

He produces his own VEGETABLES at home. He produces his own MILK at home. He produces his own MEAT at home.

NOTES :

The receptor exposed to the highest concentration is located 495. meters from the source in the SE sector.

He produces his own VEGETABLES at his home.

He produces his own MEAT at his home.

He produces his own MILK at his home.

Input parameters outside the "normal" range:

RESULTS:

Effective dose equivalent: 0.8 mrem/yr.

*** Comply at level 4.

This facility is in COMPLIANCE.

It may or may not be EXEMPT from reporting to the EPA.

You may contact your regional EPA office for more information.

********* END OF COMPLIANCE REPORT *********

1/12/2004

COMPLY: V1.6. 12:04

> 40 CFR Part 61 National Emission Standards for Hazardous Air Pollutants

REPORT ON COMPLIANCE WITH

THE CLEAN AIR ACT LIMITS FOR RADIONUCLIDE EMISSIONS

FROM THE COMPLY CODE - V1.6.

Haven 1-12-04 Andrew

Prepared by:

NIST NCNR / ABC Bldg 235

D.Brown 301-975-5810

Prepared for:

COMPLY: V1.6. 12:04

NBSR 2003

SCREENING LEVEL 4

DATA ENTERED:

Nuclide	Release Rate (curies/YEAR)
H-3 V	1.030E+03
AR-41	1.078E+03

Release height 30 meters. Building height 20 meters. The source and receptor are not on the same building. Building width 100 meters. Building length 100 meters. STACK DISTANCES, FILE: wind2001

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	Distance
DIR	(meters)
N	1950.0
NNE	1410.0
NE	1380.0
ENE	1320.0
Е	720.0
ESE	540.0
SE	495.0
SSE	615.0
S	1260.0
SSW	1350.0
SW	480.0
WSW	400.0
W	400.0
WNW	400.0
NW	500.0
NNW	870.0

1/12/2004

1/12/2004

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COMPLY: V1.6. 12:04

WINDROSE DATA, FILE: wr2001

Source of wind rose data: from NBSR-9 1960-1986 Dates of coverage: 1960-1986 Wind rose location: nat'l airport Distance to facility: 20 mi

Percent calm: 0.03

Wind FROM	Frequency	Speed (miles/hr)
1 1011	i requency	(112202)
N	0.050	10.00
NNE	0.050	11.00
NE	0.050	10.00
ENE	0.040	10.00
E	0.030	9.00
ESE	0.020	9.00
SE	0.030	9.00
SSE	0.050	9.00
S	0.110	10.00
SSW	0.120	10.00
SW	0.060	8.00
WSW	0.040	8.00
W	0.040	9.00
WNW	0.090	13.00
NW	0.110	11.00
NNW	0.080	11.00

He produces his own VEGETABLES at home. He produces his own MILK at home. He produces his own MEAT at home.

NOTES :

The receptor exposed to the highest concentration is located 495. meters from the source in the SE sector.

He produces his own VEGETABLES at his home.

He produces his own MEAT at his home.

He produces his own MILK at his home.

Input parameters outside the "normal" range:

1/12/2004

COMPLY: V1.6. 12:04

RESULTS:

Effective dose equivalent:

0.7 mrem/yr.

*** Comply at level 4.

This facility is in COMPLIANCE.

It may or may not be EXEMPT from reporting to the EPA.

You may contact your regional EPA office for more information.

********* END OF COMPLIANCE REPORT *********

1/13/2006 12:23

COMPLY: V1.6.

40 CFR Part 61 National Emission Standards for Hazardous Air Pollutants

REPORT ON COMPLIANCE WITH

THE CLEAN AIR ACT LIMITS FOR RADIONUCLIDE EMISSIONS

FROM THE COMPLY CODE - V1.6.

Prepared by:

NIST NBSR Gaithersburg, MD

D. Brown x5810

Levue 500-06

Prepared for:

2005 NBSR Releases

SCREENING LEVEL 4

DATA ENTERED:

	Release Rate
Nuclide	(curies/YEAR)
H-3 V	7.870E+02
AR-41	1.163E+03

Release height 30 meters. Building height 20 meters.

The source and receptor are not on the same building.

Building width 100 meters.

Building length 100 meters.

STACK DISTANCES, FILE: wind2001

Distance
(meters)
1950.0
1410.0
1380.0
1320.0
720.0
540.0
495.0
615.0
1260.0
1350.0
480.0
400.0
400.0
400.0
500.0
870.0

1/13/2006 12:23

COMPLY: V1.6.

WINDROSE DATA, FILE: wr2001

Source of wind rose data: from NBSR-9 1960-1986 Dates of coverage: 1960-1986 Wind rose location: nat'l airport Distance to facility: 20 mi

Percent calm: 0.03

Wind		Speed
FROM	Frequency	(miles/hr)
N	0.050	10.00
NNE	0.050	11.00
NE	0.050	10.00
ENE	0.040	10,00
E	0.030	9.00
ESE	0.020	9.00
SE	0.030	9.00
SSE	0.050	9.00
S	0.110	10.00
SSW	0.120	10.00
SW	0.060	8.00
WSW	0.040	8.00
W	0.040	9.00
WNW	0.090	13.00
NW	0.110	11.00
NNW	0.080	11.00

He produces his own VEGETABLES at home. He produces his own MILK at home. He produces his own MEAT at home.

NOTES:

The receptor exposed to the highest concentration is located 495. meters from the source in the SE sector.

He produces his own VEGETABLES at his home.

He produces his own MEAT at his home.

He produces his own MILK at his home.

Input parameters outside the "normal" range:

1/13/2006 12:23

COMPLY: V1.6.

RESULTS :

Effective dose equivalent: 0.8 mrem/yr.

*** Comply at level 4.

This facility is in COMPLIANCE.

It may or may not be EXEMPT from reporting to the EPA.

You may contact your regional EPA office for more information.

********* END OF COMPLIANCE REPORT *********

1/27/2005 9:49

COMPLY: V1.6.

40 CFR Part 61 National Emission Standards for Hazardous Air Pollutants

REPORT ON COMPLIANCE WITH

THE CLEAN AIR ACT LIMITS FOR RADIONUCLIDE EMISSIONS

FROM THE COMPLY CODE - V1.6.

Kerrenne 1-27-05 Swown

Prepared by:

NIST NBSR Bldg 235

D.Brown 301-975-5810

Prepared for:

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COMPLY: V1.6.

NBSR CY2005

SCREENING LEVEL 4

DATA ENTERED:

	Release Rate
Nuclide	(curies/YEAR)
н-з V	1.358E+03
AR-41	9.470E+02

Release height 30 meters.

Building height 20 meters.

The source and receptor are not on the same building.

Building width 100 meters.

Building length 100 meters.

STACK DISTANCES, FILE: wind2001

	Distance	
DIR	(meters)	
N	1950.0	
NNE	1410.0	
NE	1380.0	
ENE	1320.0	
Е	720.0	
ESE	540.0	
SE	495.0	
SSE	615.0	
S	1260.0	
SSW	1350.0	
SW	480.0	
WSW	400.0	
W	400.0	
WNW	400.0	
NW	500.0	
NNW	870.0	

1/27/	2005	9:49
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RESULTS :

Effective dose equivalent:

*** Comply at level 4.

This facility is in COMPLIANCE.

It may or may not be EXEMPT from reporting to the EPA.

You may contact your regional EPA office for more information.

0.7 mrem/yr.

******** END OF COMPLIANCE REPORT *********