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SUMMARY OF RADIOACTIVE SOLID WASTE BURIALS
IN THE 200 AREAS DURING 1976

J. E. Mirabella
Operational Process Engineering
Engineering

April 27, 1977

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SUMMARY OF RADIOACTIVE SOLID WASTE BURIALS IN THE 200 AREAS DURING 1976

INTRODUCTION

This document is issued quarterly for the purpose of summarizing the amount of radioactive materials that have been buried in the burial grounds. In addition to data for 1976, cumulative data since plant startup are presented. Also, in this document is a listing of decayed activity to the various plant burial sites.

DISCUSSION

An overall summary is presented on Pages 1 through 4, giving the amount of radioactive materials buried within the Production and Waste Management Division 200 Area plateau since start up. On Pages 5 and 6 is a listing of the decayed activities buried in the various burial grounds from start up through 1976. Both the total and decayed summaries have item 2 of the bibliography as the basis.

An estimate is presented on Pages 7 through 10 of the amount of radioactive materials in transuranic segregated burials. Pages 11 and 12 show the decay status of this waste from 1970 to date. On Pages 13 and 14 is a listing of the amount of segregated noncombustible transuranic waste that was buried from 1970 to date. Pages 15 through 18 present the summary of waste burials during 1976, while Pages 19 through 29 present the burials in each of the burial grounds.

The data presented in the tables are to be read as shown by the following examples:

$$.241\text{E}+07 = 0.241 \times 10^{+7}$$

$$.241\text{E}-07 = 0.241 \times 10^{-7}$$

It should be noted that the summation of ^{90}Sr , ^{106}Ru , ^{137}Cs and other radioactivity does not equal the total curie amount. The difference is the amount of other mixed fission products which are also present in the burials.

The data in this report supersede that contained in the first three quarters of 1976 report ARH-CD-744 3Q.

ESTIMATED STATUS OF SOLID WASTE BURIAL GROUNDS IN THE 200 AREAS
FROM START-UP TO 12/31 1976, INCLUDING SEGREGATED TRANSURANIC WASTE

PAGE 1

BURIAL GROUND	SURFACE AREA (SQUARE FT)	VOLUME (CUBIC FEET)	URANIUM (GRAMS)	PLUTONIUM (GRAMS)	OTHER RADIOACTIVITY (GRAMS)
200EAST AREA					
CONSTRUCTION (NO NUMBER)	.750E+05	.800E+05	.200E+04	.200E+02	
PUREX TUNNEL NO. 1	.216E+05	.200E+05			
PUREX TUNNEL NO. 2	.102E+06	.192E+05		.500E+03	
DRY WASTE NO. 001	.111E+06	.107E+06	.400E+06	.900E+03	
INDUSTRIAL WASTE NO. 002	.298E+06	.319E+06	.300E+06	.800E+03	
MINOR CONSTRUCTION NO. 4	.156E+05	.560E+05	.100E+04	.100E+02	
INDUSTRIAL WASTE NO. 005	.102E+06	.112E+06	.120E+06	.620E+03	
INDUSTRIAL WASTE NO. 010	.800E+06	.553E+06	.801E+06	.493E+04	
INDUSTRIAL WASTE NO. 05A	.227E+06	.218E+06	.120E+06	.138E+04	
DRY WASTE NO. 12A	.956E+06	.539E+06	.990E+06	.893E+04	
DRY WASTE NO. 12B	.501E+06	.453E+06	.700E+04	.127E+04	*1
222 VAULTS	.200E+04	.600E+04	.100E+04	.100E+01	
TOTAL 200-E	.335E+07	.248E+07	.274E+07	.194E+05	.560E+02
TOTAL ACRES	.769E+02				
*1 (U-233, .560E+02)					

ESTIMATED STATUS OF SOLID WASTE BURIAL GROUNDS IN THE 200 AREAS
FROM START-UP TO 12/31 1976, INCLUDING SEGREGATED TRANSURANIC WASTE
(CONTINUED)

PAGE 2

BURIAL GROUND 200EAST AREA	TOTAL (CURIES)	SR-90 (CURIES)	PU-106 (CURIES)	CS-137 (CURIES)	OTHER RADIOACTIVITY (CURIES)
CONSTRUCTION (NO NUMBER)	.100E+02	.199E+00	.428E+00	.212E+00	
PUREX TUNNEL NO. 1	.878E+05	.175E+04	.376E+04	.186E+04	
PUREX TUNNEL NO. 2	.195E+05	.404E+02	.869E+02	.431E+02	*1
DRY WASTE NO. 001	.100E+03	.199E+01	.428E+01	.212E+01	
INDUSTRIAL WASTE NO. 002	.250E+05	.497E+03	.107E+04	.531E+03	
MINOR CONSTRUCTION NO. 4	.100E+02	.199E+00	.428E+00	.212E+00	
INDUSTRIAL WASTE NO. 005	.750E+04	.149E+03	.321E+03	.159E+03	
INDUSTRIAL WASTE NO. 010	.336E+06	.274E+05	.106E+05	.278E+05	*2
INDUSTRIAL WASTE NO. 05A	.165E+05	.328E+03	.707E+03	.350E+03	
DRY WASTE NO. 12A	.890E+03	.177E+02	.381E+02	.189E+02	
DRY WASTE NO. 12B	.122E+05	.254E+03	.522E+03	.271E+03	
222 VAULTS	.500E+03	.119E+02	.257E+02	.127E+02	
TOTAL 200-E	.507E+06	.305E+05	.171E+05	.310E+05	.185E+05

*1 (C060, .175E+05)

*2 (C060, .100E+04)

ESTIMATED STATUS OF SOLID WASTE BURIAL GROUNDS IN THE 200 AREAS
FROM START-UP TO 12/31 1976, INCLUDING SEGREGATED TRANSURANIC WASTE
(CONTINUED)

PAGE 3

BURIAL GROUND 200WEST AREA	SURFACE AREA (SQUARE FT)	VOLUME (CUBIC FEET)	URANIUM (GRAMS)	PLUTONIUM (GRAMS)	OTHER RADIOACTIVITY (GRAMS)
INDUSTRIAL WASTE NO. 001	.413E+06	.484E+06	.900E+06	.200E+04	
DRY WASTE NO. 001	.331E+06	.253E+06	.700E+06	.940E+05	
INDUSTRIAL WASTE NO. 002	.873E+06	.672E+06	.200E+07	.638E+04	
DRY WASTE NO. 002	.306E+06	.291E+06	.140E+07	.126E+06	
DRY WASTE NO. 003	.402E+06	.385E+06	.700E+08	.680E+05	*1
DRY WASTE NO. 03A	.638E+06	.842E+06	.234E+08	.160E+05	*2
DRY WASTE NO. 04A	.710E+06	.625E+06	.500E+09	.354E+05	*3
DRY WASTE NO. 04B	.456E+06	.353E+06	.558E+07	.449E+05	*4
CAISSON - NO. 1		.225E+03	.154E+06	.473E+03	*5
CAISSON - NO. 2		.800E+01		<.500E+00	
CAISSON - NO. 3		.191E+03	.100E+06	.474E+03	
CAISSON - NO. 4		.166E+03	.486E+05	.730E+03	*6
CAISSON - NO. 5		.156E+03			
CAISSON - UNI NO. 1		.125E+02			
CAISSON - ALPHA 1		.205E+03	.407E+05	.145E+04	*7
CAISSON - ALPHA 2		.264E+03	.326E+04	.115E+04	
DRY WASTE NO. 212		.765E+04		.400E+02	
222-S VAULTS	.250E+03	.560E+04	.700E+03	.700E+00	
222-T VAULTS	.250E+03	.240E+04	.300E+03	.300E+00	
TOTAL 200-W	.413E+07	.392E+07	.604E+09	.397E+06	.311E+09
TOTAL ACRES	.948E+02				
TOTAL 200 AREAS	.748E+07	.640E+07	.607E+09	.416E+06	.311E+09
TOTAL ACRES	.172E+03				
*1 (TH, .600E+08)					
*2 (TH, .639E+06) (NP237, .430E-01) (U-233, .200E+03) (LI				.118E+05) (H-2, .200E+03)	
*3 (TH, .250E+09)					
*4 (TH, .866E+05) (U-233, .166E+03) (AM, .650E-02) (PU238, .300E+00)					
*5 (TH, .820E+04)					
*6 (TH, .581E+05)					
*7 (TH, .886E+04) (NP237, .207E+02) (PU238, .900E+00)					

ESTIMATED STATUS OF SOLID WASTE BURIAL GROUNDS IN THE 200 AREAS
FROM START-UP TO 12/31 1976, INCLUDING SEGREGATED TRANSURANIC WASTE
(CONTINUED)

PAGE 4

BURIAL GROUND 200WEST AREA	TOTAL (CURIES)	SR-90 (CURIES)	PU-106 (CURIES)	CS-137 (CURIES)	OTHER RADIOACTIVITY (CURIES)
INDUSTRIAL WASTE NO. 001	.480E+05	.955E+03	.206E+04	.102E+04	
DRY WASTE NO. 001	.200E+03	.398E+01	.857E+01	.425E+01	
INDUSTRIAL WASTE NO. 002	.242E+06	.482E+04	.104E+05	.515E+04	
DRY WASTE NO. 002	.500E+03	.994E+01	.214E+02	.106E+02	
DRY WASTE NO. 003	.900E+03	.179E+02	.385E+02	.191E+02	
DRY WASTE NO. 03A	.686E+06	.171E+05	.613E+04	.182E+05	*1
DRY WASTE NO. 04A	.381E+04	.599E+02	.129E+03	.639E+02	
DRY WASTE NO. 04B	.252E+06	.339E+03	.730E+03	.362E+03	*2
CAISSON - NO. 1	.818E+03	.163E+02	.350E+02	.174E+02	
CAISSON - NO. 2	.200E+02	.398E+00	.857E+00	.425E+00	
CAISSON - NO. 3	.185E+05	.368E+03	.792E+03	.393E+03	
CAISSON - NO. 4	.571E+05	.113E+04	.244E+04	.121E+04	
CAISSON - NO. 5	.119E+04	.438E+03	.746E+01	.787E+02	
CAISSON - UNI NO. 1	.350E+01				*3
CAISSON - ALPHA 1	.139E+06	.695E+03	.150E+04	.742E+03	*4
CAISSON - ALPHA 2	.201E+05	.401E+03	.863E+03	.428E+03	
DRY WASTE NO. 212					
222-S VAULTS	.403E+04	.801E+02	.173E+03	.856E+02	
222-T VAULTS	.778E+03	.153E+02	.330E+02	.164E+02	
TOTAL 200-W	.147E+07	.265E+05	.253E+05	.278E+05	.928E+06
TOTAL 200 AREAS	.198E+07	.569E+05	.425E+05	.588E+05	.946E+06
*1 (CE144, .627E+05) (CO60, .122E+05) (H-3, .406E+06) (PR144, .627E+05) (EU154, .110E+03)					
(CS134, .100E+01) (PM147, .422E+05) (KR85, .373E+04) (EU155, .353E+02)					
*2 (CO60, .584E+04) (H-3, .229E+06)					
*3 (CO60, .350E+01)					
*4 (CE144, .522E+05) (PR144, .522E+05)					

ESTIMATED DECAYED STATUS OF SOLID WASTE BURIAL GROUNDS IN THE
200 AREAS FROM START-UP TO 12/31 1976, INCLUDING SEGREGATED
TRANSURANIC WASTES

PAGE 5

BURIAL GROUND 200EAST AREA	TOTAL (CURIES)	SR-90 (CURIES)	RU-106 (CURIES)	CS-137 (CURIES)	OTHER RADIOACTIVITY (CURIES)
CONSTRUCTION (NO NUMBER)	.534E+00	.128E+00	.184E-05	.140E+00	
PUREX TUNNEL NO. 1	.502E+04	.119E+04	.107E+00	.130E+04	
PUREX TUNNEL NO. 2	.999E+04	.334E+02	.692E+00	.361E+02	*1
DRY WASTE NO. 001	.421E+01	.101E+01	.576E-07	.113E+01	
INDUSTRIAL WASTE NO. 002	.110E+04	.265E+03	.373E-04	.294E+03	
MINOR CONSTRUCTION NO. 4	.488E+00	.117E+00	.155E-06	.130E+00	
INDUSTRIAL WASTE NO. 005	.368E+03	.884E+02	.155E-03	.976E+02	
INDUSTRIAL WASTE NO. 010	.108E+06	.259E+05	.206E+03	.263E+05	*2
INDUSTRIAL WASTE NO. 05A	.865E+03	.207E+03	.220E-02	.228E+03	
DRY WASTE NO. 12A	.554E+02	.128E+02	.191E-01	.139E+02	
DRY WASTE NO. 12B	.179E+04	.223E+03	.488E+02	.240E+03	
222 VAULTS	.256E+02	.615E+01	.387E-06	.685E+01	
TOTAL 200-E	.127E+06	.279E+05	.255E+03	.285E+05	.105E+05

*1 (C060, .983E+04)
*2 (C060, .627E+03)

ESTIMATED DECAYED STATUS OF SOLID WASTE BURIAL GROUNDS IN THE
200 AREAS FROM START-UP TO 12/31 1976, INCLUDING SEGREGATED
TRANSURANIC WASTES

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(CONTINUED)

BURIAL GROUND	TOTAL	SR-90	RU-106	CS-137	OTHER RADIOACTIVITY
200WEST AREA	(CURIES)	(CURIES)	(CURIES)	(CURIES)	(CURIES)
INDUSTRIAL WASTE NO. 001	.211E+04	.506E+03	.818E-04	.563E+03	
DRY WASTE NO. 001	.843E+01	.202E+01	.138E-06	.226E+01	
INDUSTRIAL WASTE NO. 002	.133E+05	.312E+04	.607E+01	.342E+04	
DRY WASTE NO. 002	.243E+02	.584E+01	.894E-05	.646E+01	
DRY WASTE NO. 003	.481E+02	.115E+02	.206E-03	.126E+02	
DRY WASTE NO. 03A	.439E+06	.160E+05	.980E+03	.171E+05	*1
DRY WASTE NO. 04A	.199E+03	.452E+02	.125E+00	.491E+02	
DRY WASTE NO. 04B	.156E+06	.283E+03	.579E+01	.306E+03	*2
CAISSON - NO. 1	.630E+02	.134E+02	.151E+00	.145E+02	
CAISSON - NO. 2	.159E+01	.331E+00	.486E-02	.357E+00	
CAISSON - NO. 3	.147E+04	.306E+03	.482E+01	.331E+03	
CAISSON - NO. 4	.491E+04	.968E+03	.288E+02	.104E+04	
CAISSON - NO. 5	.112E+04	.427E+03	.599E+01	.770E+02	
CAISSON - UNI NO. 1	.319E+01				*3
CAISSON - ALPHA 1	.389E+04	.597E+03	.237E+02	.644E+03	*4
CAISSON - ALPHA 2	.560E+04	.379E+03	.241E+03	.406E+03	
DRY WASTE NO. 212					
222-S VAULTS	.205E+03	.492E+02	.359E-03	.542E+02	
222-T VAULTS	.330E+02	.793E+01	.563E-06	.884E+01	
TOTAL 200-W	.628E+06	.227E+05	.130E+04	.241E+05	.526E+06
TOTAL 200 AREAS	.755E+06	.507E+05	.155E+04	.526E+05	.536E+06
*1 (CE144, .561E+04) (CO60, .752E+04) (H-3, .328E+06) (PR144, .561E+04) (EU154, .941E+02)					
(CS134, .724E+00) (PM147, .201E+05) (KR85, .315E+04) (EU155, .129E+02)					
*2 (CO60, .217E+04) (H-3, .153E+06)					
*3 (CO60, .319E+01)					
*4 (CE144, .388E+03) (PR144, .388E+03)					

SUMMARY
200 AREAS SEGREGATED LAND BURIAL FROM 1970 TO 12/31 1976
CPD RADIOACTIVE WASTE BURIAL GROUNDS, INCLUDING V7 TRENCH

PAGE 7

BURIAL GROUND	SURFACE AREA (SQUARE FT)	VOLUME (CUBIC FEET)	URANIUM (GRAMS)	PLUTONIUM (GRAMS)	OTHER RADIOACTIVITY (GRAMS)
200EAST AREA					
DRY WASTE NO. 128 TRANSURANIC	.229E+05	.227E+05		.112E+03	*1
TOTAL 200-E	.229E+05	.227E+05		.112E+03	.560E+02
*1 (U-233, .560E+02)					

SUMMARY
200 AREAS SEGREGATED LAND BURIAL FROM 1970 TO 12/31 1976
CPD RADIOACTIVE WASTE BURIAL GROUNDS, INCLUDING V7 TRENCH
(CONTINUED)

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BURIAL GROUND	TOTAL (CURIES)	SR-90 (CURIES)	RU-106 (CURIES)	CS-137 (CURIES)	OTHER RADIOACTIVITY (CURIES)
200EAST AREA					
DRY WASTE NO. 12B TRANSURANIC	.307E+03	.611E+01	.132E+02	.653E+01	
TOTAL 200-E	.307E+03	.611E+01	.132E+02	.653E+01	

SUMMARY
200 AREAS SEGREGATED LAND BURIAL FROM 1970 TO 12/31 1976
CPD RADIOACTIVE WASTE BURIAL GROUNDS, INCLUDING V7 TRENCH
(CONTINUED)

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BURIAL GROUND	SURFACE AREA (SQUARE FT)	VOLUME (CUBIC FEET)	URANIUM (GRAMS)	PLUTONIUM (GRAMS)	OTHER RADIOACTIVITY (GRAMS)
200WEST AREA					
DRY WASTE NO. 03A					
TRANSURANIC	.486E+05	.986E+05	.991E+04	.103E+05	*1
TRANSURANIC-OFFSITE	.130E+05	.507E+04	.259E+07	.522E+04	
TOTAL	.616E+05	.104E+06	.260E+07	.155E+05	.234E+05
DRY WASTE NO. 048					
TRANSURANIC	.576E+05	.952E+05	.734E+06	.355E+05	*2
TRANSURANIC-OFFSITE		.345E+04	.202E+07	.106E+04	*3
TRANSURANIC-CAISSON		.469E+03	.440E+05	.260E+04	*4
TOTAL	.576E+05	.991E+05	.279E+07	.392E+05	.716E+05
DRY WASTE NO. 212					
TRANSURANIC		.765E+04		.400E+02	
TOTAL 200-W	.119E+06	.210E+06	.539E+07	.547E+05	.950E+05
TOTAL 200 AREAS	.142E+06	.233E+06	.539E+07	.549E+05	.950E+05
*1 (TH, .234E+05) (NP237, .100E-04) (U-233, .400E+01)					
*2 (TH, .364E+05) (U-233, .179E+03) (AM, .130E-01) (PU238, .300E+00)					
*3 (TH, .241E+05) (LI, .200E+04)					
*4 (TH, .886E+04) (NP237, .207E+02) (PU238, .900E+00)					

SUMMARY
200 AREAS SEGREGATED LAND BURIAL FROM 1970 TO 12/31 1976
CPD RADIOACTIVE WASTE BURIAL GROUNDS, INCLUDING V7 TRENCH
(CONTINUED)

PAGE 10

BURIAL GROUND	TOTAL (CURIES)	SR-90 (CURIES)	RU-106 (CURIES)	CS-137 (CURIES)	OTHER RADIOACTIVITY (CURIES)
200WEST AREA					
DRY WASTE NO. 03A					
TRANSURANIC	.887E+02	.127E+01	.273E+01	.135E+01	*1
TRANSURANIC-OFFSITE	.237E+06	.167E+05	.569E+04	.170E+05	*2
TOTAL	.237E+06	.167E+05	.569E+04	.170E+05	.152E+06
DRY WASTE NO. 04B					
TRANSURANIC	.709E+03	.141E+02	.304E+02	.151E+02	
TRANSURANIC-OFFSITE	.980E+03	.850E-01	.183E+00	.907E-01	*3
TRANSURANIC-CAISSON	.159E+06	.110E+04	.236E+04	.117E+04	*4
TOTAL	.161E+06	.111E+04	.239E+04	.119E+04	.105E+06
DRY WASTE NO. 212					
TRANSURANIC					
TOTAL 200-W	.398E+06	.178E+05	.808E+04	.182E+05	.257E+06
TOTAL 200 AREAS	.399E+06	.178E+05	.809E+04	.182E+05	.257E+06
*1 (CO60, .250E+02)					
*2 (CE144, .529E+05)(PM147, .402E+05)(CO60, .220E+04)(KR85, .373E+04)(EU155, .353E+02)					
(PR144, .529E+05)					
*3 (H-3, .975E+03)					
*4 (CE144, .522E+05)(PR144, .522E+05)					

SUMMARY
ESTIMATED DECAYED STATUS OF SEGREGATED TRANSURANIC WASTES IN THE
200 AREAS FROM 1970 TO 12/31 1976

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BURIAL GROUND 200EAST AREA	TOTAL (CURIES)	SR-90 (CURIES)	RU-106 (CURIES)	CS-137 (CURIES)	OTHER RADIOACTIVITY (CURIES)
CRY WASTE NO. 123 TRANSURANIC	<.175E+02	<.282E+01	<.310E+00	<.303E+01	
TOTAL 200-E	<.175E+02	<.282E+01	<.310E+00	<.303E+01	

SUMMARY
ESTIMATED DECAYED STATUS OF SEGREGATED TRANSURANIC WASTES IN THE
200 AREAS FROM 1970 TO 12/31 1976
(CONTINUED)

PAGE 12

BURIAL GROUND 200WEST AREA	TOTAL (CURIES)	SR-90 (CURIES)	RU-106 (CURIES)	CS-137 (CURIES)	OTHER RADIOACTIVITY (CURIES)
DRY WASTE NO. 03A					
TRANSURANIC	<.329E+02	<.786E+00	.543E+00	<.844E+00	*1
TRANSURANIC-OFFSITE	.997E+05	.157E+05	.930E+03	.160E+05	*2
TOTAL	.997E+05	.157E+05	.930E+03	.160E+05	.350E+05
DRY WASTE NO. 04B					
TRANSURANIC	<.220E+02	<.293E+01	<.575E+00	<.314E+01	
TRANSURANIC-OFFSITE	.507E+00	.768E-01	.106E-01	.825E-01	
TRANSURANIC-CAISSON	<.587E+04	<.422E+03	<.246E+03	<.453E+03	
TOTAL	<.589E+04	<.425E+03	<.246E+03	<.456E+03	
DRY WASTE NO. 212					
TRANSURANIC					
TOTAL 200-W	<.106E+06	<.161E+05	<.118E+04	<.164E+05	.350E+05
TOTAL 200 AREAS	<.106E+06	<.161E+05	<.118E+04	<.164E+05	.350E+05
*1 (C060, .213E+02)					
*2 (CE144, .510E+04) (PM147, .201E+05) (C060, .155E+04) (KR85, .315E+04) (EU155, .129E+02) (PR144, .510E+04)					

SUMMARY

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200 AREAS SEGREGATED NONCOMBUSTIBLE LAND BURIAL FROM 1970-TO DATE
CPD RADIOACTIVE WASTE BURIAL GROUNDS, INCLUDING V7 TRENCH

BURIAL GROUND	SURFACE AREA (SQUARE FT)	VOLUME (CUBIC FEET)	URANIUM (GRAMS)	PLUTONIUM (GRAMS)	OTHER RADIOACTIVITY (GRAMS)
200WEST AREA					
DRY WASTE NO. 03A					
TRANSURANIC		.688E+05		.681E+04	*1
DRY WASTE NO. 04B					
TRANSURANIC		.101E+05	.218E+06	.857E+04	
TRANSURANIC-OFFSITE		.479E+03	.757E+04	.713E+03	*2
TRANSURANIC-CAISSON		.586E+02	.967E+03	.433E+03	
TOTAL		.106E+05	.227E+06	.971E+04	.132E+03
TOTAL 200-W		.794E+05	.227E+06	.165E+05	.227E+05
TOTAL 200 AREAS		.794E+05	.227E+06	.165E+05	.227E+05
*1 (TH, .226E+05) (U-233, .400E+01)					
*2 (TH, .132E+03)					

SUMMARY
 200 AREAS SEGREGATED NONCOMBUSTIBLE LAND BURIAL FROM 1970-TO DATE
 CPD RADIOACTIVE WASTE BURIAL GROUNDS, INCLUDING V7 TRENCH
 (CONTINUED)

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BURIAL GROUND 200WEST AREA	TOTAL (CURIES)	SR-90 (CURIES)	RU-106 (CURIES)	CS-137 (CURIES)	OTHER RADIOACTIVITY (CURIES)
DRY WASTE NO. 03A TRANSURANIC	.353E+02	.702E+00	.151E+01	.750E+00	
DRY WASTE NO. 04B TRANSURANIC	<.333E+01	<.663E-01	<.143E+00	<.708E-01	
TRANSURANIC-OFFSITE					
TRANSURANIC-CAISSON	.339E+04	.674E+02	.145E+03	.720E+02	
TOTAL	.339E+04	.675E+02	.145E+03	.721E+02	
 TOTAL 200-W	 .343E+04	 .682E+02	 .147E+03	 .728E+02	
TOTAL 200 AREAS	.343E+04	.682E+02	.147E+03	.728E+02	

SUMMARY
 LAND BURIAL FROM 1/1 TO 12/31 1976
 CPD RADIOACTIVE WASTE BURIAL GROUNDS, 200 AREAS
 (CONTINUED)

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BURIAL GROUND 200EAST AREA	SURFACE AREA (SQUARE FT)	VOLUME (CUBIC FEET)	URANIUM (GRAMS)	PLUTONIUM (GRAMS)	OTHER RADIOACTIVITY (GRAMS)
INDUSTRIAL WASTE NO. 010	.216E+04	.487E+04			
DRY WASTE NO. 128 NONTRANSURANIC	.486E+05	.481E+05			
TOTAL 200-E	.508E+05	.530E+05			

SUMMARY
 LAND BURIAL FROM 1/1 TO 12/31 1976
 CPC RADIOACTIVE WASTE BURIAL GROUNDS, 200 AREAS
 (CONTINUED)

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BURIAL GROUND 200EAST AREA	TOTAL (CURIES)	SR-90 (CURIES)	PU-106 (CURIES)	CS-137 (CURIES)	OTHER RADIOACTIVITY (CURIES)
INDUSTRIAL WASTE NO. 010	.153E+05	.376E+04	.257E+02	.376E+04	
DRY WASTE NO. 12B NONTRANSURANIC	.511E+03	.173E+02	.206E+02	.163E+02	
TOTAL 200-E	.158E+05	.378E+04	.463E+02	.378E+04	

SUMMARY
 LAND BURIAL FROM 1/1 TO 12/31 1976
 CPD RADIOACTIVE WASTE BURIAL GROUNDS, 200 AREAS

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BURIAL GROUND 200WEST AREA	SURFACE AREA (SQUARE FT)	VOLUME (CUBIC FEET)	URANIUM (GRAMS)	PLUTONIUM (GRAMS)	OTHER RADIOACTIVITY (GRAMS)
DRY WASTE NO. 03A					
NONTRANSURANIC	.843E+05	.111E+06	.305E+07	<.720E-01	
TRANSURANIC	.608E+04	.196E+05		.229E+04	*1
TRANSURANIC-OFFSITE	.136E+04	.120E+04	.255E+07	.515E+03	
TOTAL	.917E+05	.132E+06	.560E+07	.280E+04	.226E+05
DRY WASTE NO. 04B					
TRANSURANIC	.368E+04	.838E+04	.218E+06	.192E+04	*2
TRANSURANIC-OFFSITE		.301E+03	.165E+03	.118E+03	
NONTRANSURANIC-CAISSON		.615E+02			
TRANSURANIC-CAISSON		.586E+02	.967E+03	.433E+03	
TOTAL	.368E+04	.880E+04	.219E+06	.247E+04	.166E+03
TOTAL 200-W	.954E+05	.141E+06	.582E+07	.527E+04	.228E+05
TOTAL 200 AREAS	.146E+06	.194E+06	.582E+07	.527E+04	.228E+05
*1 (TH, .226E+05) (U-233, .400E+01)					
*2 (U-233, .166E+03)					

SUMMARY
 LAND BURIAL FROM 1/1 TO 12/31 1976
 CPD RADIOACTIVE WASTE BURIAL GROUNDS, 200 AREAS
 (CONTINUED)

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BURIAL GROUND 200WEST AREA	TOTAL (CURIES)	SR-90 (CURIES)	RU-106 (CURIES)	CS-137 (CURIES)	OTHER RADIOACTIVITY (CURIES)
DRY WASTE NO. 03A					
NONTRANSURANIC	.142E+04	.237E+02	.126E+02	.226E+02	*1
TRANSURANIC					
TRANSURANIC-OFFSITE					
TOTAL	.142E+04	.237E+02	.126E+02	.226E+02	.106E+04
DRY WASTE NO. 04B					
TRANSURANIC	.109E+01	.217E-01	.406E-01	.231E-01	
TRANSURANIC-OFFSITE					
NONTRANSURANIC-CAISSON	.314E+03	.330E+01	.711E+01	.785E+02	*2
TRANSURANIC-CAISSON	.339E+04	.674E+02	.145E+03	.720E+02	
TOTAL	.371E+04	.709E+02	.152E+03	.151E+03	.350E+01
TOTAL 200-W	.513E+04	.945E+02	.165E+03	.173E+03	.106E+04
TOTAL 200 AREAS	.209E+05	.387E+04	.211E+03	.395E+04	.106E+04
*1 (CE144, .188E+02) (C060, .538E+03) (H-3, .482E+03) (PR144, .188E+02) (CS134, .100E+01)					
*2 (C060, .350E+01)					

BURIAL GROUND 010, AREA 200-E, WASTE TYPE - INDUSTRIAL

TRENCH 06, PERIOD 01/01/76 TO 06/30/76 (N-44540 TO N-44556), (W-55325 TO W-55325)
 TRENCH 08, PERIOD 03/05/76 TO 12/31/76 (N-45803 TO N-45765), (W-55625 TO W-55625)

SHIPPER	TYPE*	VOLUME CU. FT.	PU GRAMS	TOTAL CURIES	SR-90 CURIES	RU-106 CURIES	CS-137 CURIES	URANIUM GRAMS	OTHER CURIES	OTHER GRAMS
ARHCO ,2ETF ,200-E	1	.147E+04		.300E+03	.597E+01	.128E+02	.637E+01			
ARHCO ,221-B ,200-E	2	.340E+04		.150E+05	.376E+04	.129E+02	.376E+04			
TOTAL (.496E-01 ACRES)		.487E+04		.153E+05	.376E+04	.257E+02	.376E+04			

*TYPE SEE APPENDIX A

LAND BURIAL OF SOLID RADIOACTIVE WASTE FROM 1/1 TO 12/31 1976

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BURIAL GROUND 12B, AREA 200-E, WASTE TYPE - NONTRANSURANIC

TRENCH 11, PERIOD 08/10/76 TO 12/31/76 (N-44488 TO N-45147), (W-48864 TO W-48864)
TRENCH 18, PERIOD 01/01/76 TO 09/30/76 (N-44919 TO N-45445), (W-49144 TO W-49144)

SHIPPER	TYPE	VOLUME CU. FT.	PU GRAMS	TOTAL CURIES	SR-90 CURIES	RU-106 CURIES	CS-137 CURIES	URANIUM GRAMS	OTHER CURIES	OTHER GRAMS
ARHCO	,2ETF ,200-E	3	.317E+05	.376E+03	.749E+01	.161E+02	.800E+01			
ARHCO	,202-AL,200-E	1	.135E+03							
ARHCO	,202-A ,200-E	1	.377E+03	.911E-01	.181E-02	.390E-02	.194E-02			
ARHCO	,221-3 ,200-E	1	.126E+04	.375E+01	.938E+00	.322E-02	.939E+00			
ARHCO	,225-3 ,200-E	1	.419E+04	.117E+03	.828E+01	.388E+01	.909E+01			
BNW	,242-3 ,200-E	1	.247E+04	<.250E+01<	<.497E-01<	<.187E+00<	<.531E-01			
JAJ	,224-3 ,200-E	3	.802E+04	.105E+02	.209E+00	.451E+00	.223E+00			
TOTAL	(.112E+01 ACRES)		.481E+05	.511E+03	.170E+02	.206E+02	.183E+02			

*TYPE SEE APPENDIX A

BURIAL GROUND 03A, AREA 200-W, WASTE TYPE - NONTRANSURANIC

TRENCH 08, PERIOD 03/08/76 TO 03/09/76 (N-44660 TO N-44660), (W-78004 TO W-77988)
 TRENCH 23, PERIOD 06/03/76 TO 12/31/76 (N-45320 TO N-45320), (W-78046 TO W-77170)
 TRENCH 30, PERIOD 01/01/76 TO 09/30/76 (N-45600 TO N-45600), (W-77837 TO W-77210)
 TRENCH 32, PERIOD 12/17/76 TO 12/31/76 (N-45680 TO N-45680), (W-78037 TO W-78056)
 TRENCH 34, PERIOD 01/01/76 TO 03/19/76 (N-45760 TO N-45760), (W-77738 TO W-77160)

SHIPPER	TYPE*	VOLUME CU. FT.	PU GRAMS	TOTAL CURIES	SR-90 CURIES	RU-106 CURIES	CS-137 CURIES	URANIUM GRAMS	OTHER CURIES	OTHER GRAMS
ARHCO	,1100	,1100	2	.325E+03						
ARHCO	,1171	,1100	1	.135E+02						
ARHCO	,2WTF	,200-W	3	.540E+04<.120E-01	.187E+03	.372E+01	.800E+01	.397E+01		
ARHCO	,221-T	,200-W	1	.235E+04	.106E+01	.211E-01	.455E-01	.226E-01		
ARHCO	,222-S	,200-W	3	.883E+04	.841E+02	.167E+01	.360E+01	.179E+01		
ARHCO	,234-5Z	,200-W	3	.238E+04						
ARHCO	,200-W	,200-W	1	.150E+02						
ARHCO	,2724	,200-W	1	.248E+04	.770E-01	.153E-02	.330E-02	.164E-02		
ARHCO	,284-E	,200-E	1	.150E+03						
ARHCO	,284-W	,200-W	1	.150E+03						
BNW	,EDC	,700	1	.288E+03						
BNW	,209-E	,200-E	1	.444E+02						
BNW	,306	,300	1	.400E+02				.209E+070		
BNW	,325	,300	3	.210E+05	.484E+03	.300E-01	.647E-01	.321E-01	.940E+02N	*1
								.500E+01E		
								.950E+060		
BNW	,331	,300	2	.400E+02						
BNW	,6652I	,ALE	2	.250E+02						
HEHF	,EDF	,700	1	.176E+03						
JAJ	,224-3	,200-E	3	.112E+05<.500E-01	.402E+00	.799E-02	.172E-01	.854E-02		
UNI	,105-D	,100-D	1	.450E+03	.100E-02	.199E-04	.428E-04	.212E-04		
UNI	,105-KE	,100-K	1	.205E+04	.140E+03	.178E+02<.330E-01	.160E+02			*2
UNI	,105-KW	,100-K	3	.451E+03	.116E+01	.852E-03	.183E-02	.286E+00		*3
UNI	,105-N	,100-N	3	.302E+05	.502E+03					*4
UNI	,141-C	,100-F	1	.133E+03	.100E-02	.199E-04	.428E-04	.212E-04		
UNI	,1703-D	,100-D	1	.540E+02	.100E-02	.199E-04	.428E-04	.212E-04		
UNI	,333	,300	1	.118E+04				.242E+04E		
								.188E+030		
WHCO	,221-T	,200-W	1	.390E+03<.100E-01<.228E+01<.453E-01<.977E-01<.484E-01<.105E+010						

BURIAL GROUND G3A, AREA 200-W, WASTE TYPE - NONTRANSURANIC
(CONTINUED)

SHIPPER		VOLUME TYPE* CU. FT.	PU GRAMS	TOTAL CURIES	SR-90 CURIES	RU-106 CURIES	CS-137 CURIES	URANIUM GRAMS	OTHER CURIES	OTHER GRAMS
WHCO	,309	,300	2	.266E+03						
WHCO	,325	,300	3	.214E+05	.194E+02	.385E+00	.829E+00	.411E+00	.459E+03N	
TOTAL (.193E+01 ACRES)			.111E+06<.723E-01	.142E+04	.237E+02	.126E+02	.226E+02	.305E+07	.106E+04	

*TYPE SEE APPENDIX A

*1 (H-3, .482E+03)
 *2 (CS134, .100E+01)(CE144, .188E+02)(CO60, .361E+02)(PR144, .188E+02)
 *3 (CO60, .570E+00)
 *4 (CO60, .502E+03)

BURIAL GROUND USE, GROUP TYPE - TRANSURANIC-OFFSITE

TRENCH 23, PERIOD 10/22/76 TO 10/25/79 (M-44553), (M-77898 TO M-77932)

SHIPPER	TYPE*	VOLUME CU. FT.	PU GRAMS	TOTAL CURIES	SR-90 CURIES	RU-106 CURIES	CS-137 CURIES	URANIUM GRAMS	OTHER CURIES	OTHER GRAMS
RI , ROCKY FLATS, COL.	2	.120E+04	.515E+03							
								.980E+02E .255E+07D		
TOTAL (.312E-01 ACRES)		.120E+04	.515E+03					.255E+07		

*TYPE SEE APPENDIX A

BURIAL GROUND 03A, AREA 200-W, WASTE TYPE - TRANSURANIC

TRENCH 08, PERIOD 03/17/76 TO 03/18/76 (N-44660 TO N-44660), (W-78004 TO W-77967)

TRENCH 17, PERIOD 01/01/76 TO 12/31/76 (N-45060 TO N-45060), (W-77703 TO W-77588)

SHIPPER	TYPE*	VOLUME CU. FT.	PU GRAMS	TOTAL CURIES	SR-90 CURIES	RU-106 CURIES	CS-137 CURIES	URANIUM GRAMS	OTHER CURIES	OTHER GRAMS
ARHCO ,234-5Z,200-W	3	.195E+05	.117E+04							
BNW ,325 ,300	1	.740E+02	.112E+04							*1
TOTAL(.140E+00 ACRES)		.196E+05	.229E+04							.226E+05

*TYPE SEE APPENDIX A

*1 (TH, .226E+05)(U-233, .400E+01)

BURIAL GROUND 048, AREA 200-W, WASTE TYPE - NONTRANSURANIC-CAISSON

TRENCH 14, PERIOD 04/02/76 TO 12/31/76 (N-40490 AND W-77519), CAISSON UNI NO1

SHIPPER	TYPE	VOLUME CU. FT.	PU GRAMS	TOTAL CURIES	SR-90 CURIES	RU-106 CURIES	CS-137 CURIES	URANIUM GRAMS	OTHER CURIES	OTHER GRAMS
UNI	,105-N ,100-N 2	.125E+02		.350E+01					*1	
TOTAL		.125E+02		.350E+01						.350E+01

*TYPE SEE APPENDIX A
*1 (C060, .350E+01)

LAND BURIAL OF SOLID RADIOACTIVE WASTE FROM 1/1 TO 12/31 1976

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BURIAL GROUND 04B, AREA 200-W, WASTE TYPE - NONTRANSURANIC-CAISSON

TRENCH 14, PERIOD 01/01/76 TO 12/31/76 (N-48493 AND W-77625), CAISSON NO.5

SHIPPER	TYPE*	VOLUME CU. FT.	PU GRAMS	TOTAL CURIES	SR-90 CURIES	RU-106 CURIES	CS-137 CURIES	URANIUM GRAMS	OTHER CURIES	OTHER GRAMS
BNW ,325-A ,300	1	.490E+02		.310E+03	.330E+01	.711E+01	.785E+02			
TOTAL		.490E+02		.310E+03	.330E+01	.711E+01	.785E+02			

*TYPE SEE APPENDIX A

BURIAL GROUND 34B, AREA 035-4, WASTE TYPE - TRANSURANIC-CAISSON

TRENCH 14, PERIOD 01/01/76 TO 12/31/76 (N-46492 AND W-77969), CAISSON ALPHA-2

SHIPPER			VOLUME TYPE# CU. FT.	PU GRAMS	TOTAL CURIES	SR-90 CURIES	RU-106 CURIES	CS-137 CURIES	URANIUM GRAMS	OTHER CURIES	OTHER GRAMS
WHCO	.325-B	.300	1	.148E+01	.181E+02	.310E+02	.617E+00	.133E+01	.658E+00	.394E+02E	
WHCO	.327-C	.300	3	.571E+02	.415E+03	.336E+04	.668E+02	.144E+03	.714E+02	.928E+03E	
TOTAL				.586E+02	.433E+03	.339E+04	.674E+02	.145E+03	.720E+02	.967E+03	

*TYPE SEE APPENDIX A

LAND BURIAL OF SOLID RADIOACTIVE WASTE FROM 1/1 TO 12/31 1976

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BURIAL GROUND 04B, AREA 200-W, WASTE TYPE - TRANSURANIC-OFFSITE

TRENCH 07, PERIOD 08/09/76 TO 08/12/76 (N-40770 TO N-40770), (W-77856 TO W-77856)

SHIPPER	TYPE*	VOLUME CU. FT.	PU GRAMS	TOTAL CURIES	SR-90 CURIES	RU-106 CURIES	CS-137 CURIES	URANIUM GRAMS	OTHER CURIES	OTHER GRAMS
ARHCO ,BATTELLE COL	1	.301E+03	.118E+03					.165E+03E		
TOTAL		.301E+03	.118E+03					.165E+03		

*TYPE SEE APPENDIX A

BURIAL GROUND 048, AREA 200-W, WASTE TYPE - TRANSURANIC

TRENCH 07, PERIOD 01/01/76 TO 12/31/76 (N-40770 TO W-40779), (W-77856 TO W-77931)
 TRENCH 11, PERIOD 12/10/76 TO 12/10/76 (N-40610 TO N-40610), (W-77719 TO W-77736)

SHIPPER	TYPE*	VOLUME CU. FT.	PU GRAMS	TOTAL CURIES	SR-90 CURIES	RU-106 CURIES	CS-137 CURIES	URANIUM GRAMS	OTHER CURIES	OTHER GRAMS
ARHCO	,202-AL,200-E	1	.222E+02<.100E+00	.300E-02	.597E-04	.128E-03	.637E-04			
ARHCO	,222-S,200-W	1	.246E+03 .803E+01	.976E+00	.194E-01	.418E-01	.207E-01			*1
ARHCO	,234-5Z,200-W	3	.543E+04 .950E+03							
BNW	,209-E,200-E	1	.222E+02 .124E+03							
BNW	,231-Z,200-W	1	.720E+03 .213E+03					.218E+06J		
BNW	,325,300	1	.666E+03<.198E+02	.110E+00	.219E-02	.471E-02	.234E-02			
WHCO	,325,300	1	.127E+04 .607E+03					.550E+02N		
								.190E+02E		
TOTAL (.845E-01 ACRES)			.838E+04 .192E+04	.109E+01	.217E-01	.466E-01	.231E-01	.218E+06		.166E

*TYPE SEE APPENDIX A

*1 (U-233, .166E+03)

1. ARH-1596 - HILL, O. F., (RADIOACTIVE SOLID WASTE MANAGEMENT AT RICHLAND), FEBRUARY 20, 1970, UNCLASSIFIED.
2. ARH-2762 - ANDERSON, J. D., HANSON, G. L., KIEL, G. R., MCMURRY, B. J., AND NISICK, N. P., (INPUT AND DECAYED VALUES OF RADIOACTIVE SOLID WASTES BURIED IN THE 200 AREAS THROUGH 1971), MARCH 22, 1973, UNCLASSIFIED.
3. ARH-2757 - PART 2. ANDERSON, J. D., (SUMMARY OF RADIOACTIVE SOLID WASTE BURIALS IN THE 200 AREAS DURING 1972), APRIL 24, 1973, UNCLASSIFIED.
4. ARH-2808 - 4Q, ANDERSON, J. D., (SUMMARY OF RADIOACTIVE SOLID WASTE BURIALS IN THE 200 AREA DURING 1973), MARCH 29, 1974, UNCLASSIFIED.
5. ARH-3095 - 4Q, ANDERSON, J. D., (SUMMARY OF RADIOACTIVE SOLID WASTE BURIALS IN THE 200 AREAS DURING 1974), MARCH 28, 1975, UNCLASSIFIED.
6. ARH-CD- - 369 4Q, ANDERSON, J. D., (SUMMARY OF RADIOACTIVE SOLID WASTE BURIALS IN THE 200 AREAS DURING 1975), APRIL 27, 1976, UNCLASSIFIED.

WASTE TYPES

1. MISCELLANEOUS WASTE INCLUDING RAGS, PAPER, RUBBER GLOVES, DISPOSABLE SUPPLIES, BROKEN TOOLS, GLASS FILTERS, DIRT, ETC.
2. FAILED EQUIPMENT AND OBSOLETE EQUIPMENT OR MATERIALS INCLUDING TANKS, PUMPS, AGITATORS, OVENS, HEATERS, HOODS, JUMPERS, AND ACCESSORIES.
3. COMBINATIONS OF TYPE 1 AND TYPE 2.
4. RADIOACTIVE ELEMENTS

APPENDIX B

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200 AREA BURIAL GROUNDS

200-E AREA BURIAL GROUNDS	COORDINATES	REFERENCE DRAWINGS
DRY WASTE NO.01	N39813.23 NORTH W49361 EAST N39528 SOUTH W49845 WEST	H-2-124 H-2-31269
DRY WASTE NO.12A.	N44080 TO N44343 NORTH W48497 TO W48533 EAST N43213 TO N43217 SOUTH W45535 TO W49692 WEST	H-2-32568 H-2-57849
DRY WASTE NO.12B	N45485 TO N45585 NORTH W48522 TO W48541 EAST N44485 TO N48504 SOUTH W49661 TO W49643 WEST	H-2-33276
MINOR CONSTR #4	N44295 TO N43757 NORTHEAST W53530 TO W53371 SOUTHEAST N43666 TO N44234 SOUTHWEST W54198 TO W54140 NORTHWEST	H-2-31269
CONSTR NO NUMBER	N45284 TO N45282 NORTH W48411 TO W48419 EAST N44882 TO N44884 SOUTH W48534 TO W48526 WEST	H-2-31269
222 VAULTS	N42280 ESTIMATED	H-2-757

200 AREA BURIAL GROUNDS

200-E AREA BURIAL GROUNDS	COORDINATES	REFERENCE DRAWINGS
LINE CENTER LINE	W53760 ESTIMATED N42250 ESTIMATED W53820 ESTIMATED	H-2-1938
IND WASTE NO.02	N45886 TO N44827 NORTH W53427 TO W53456 EAST	H-2-2479
IND WASTE NO.05	N44215 TO N44395 SOUTH W54609 WEST	H-2-31269
IND WASTE NO.05A	N45889 NORTH W54612 TO W54609 EAST	H-2-55534
IND WASTE NO.10	N44395 TO N44464 SOUTH W55444 TO N55440 WEST	H-2-31269
PUREX TUNNEL #1	N39555, W48828 NORTH N39196, W48828 SOUTH	H-2-55586 H-2-55587
PUREX TUNNEL #2	N39366, W47960 NORTH N37670, W47960 SOUTH	H-2-58191 H-2-58192

200 AREA BURIAL GROUNDS

200-W AREA BURIAL GROUNDS	COORDINATES	REFERENCE DRAWINGS
AREA		
DRY WASTE NO.01	N42278 W77473 N41641 W77979	NORTH EAST SOUTH WEST H-2-123 H-2-31268
DRY WASTE NO.02	N41641 W77473 N41052 W77979	NORTH EAST SOUTH WEST H-2-2503 H-2-31268
DRY WASTE NO.03	N43945 W77560 N43230 W78095	NORTH EAST SOUTH WEST H-2-3398 H-2-32095 REVISION #4 H-2-31268
DRY WASTE NO.03A	N45020 W77150 TO W77515 N44340 W78098	NORTH EAST SOUTH WEST H-2-34880
DRY WASTE NO.04A	N43175 W77012 TO W77430	NORTH EAST H-2-32487 H-2-31268

200 AREA BURIAL GROUNDS

200-W AREA BURIAL GROUNDS	COORDINATES		REFERENCE DRAWINGS
	N42278 W78079	SOUTH WEST	
DRY WASTE NO.04B	N41052 W77458 N40450 W78079	NORTH EAST SOUTH WEST	H-2-33055 H-2-33971 H-2-34375 H-2-35279
222-T VAULT	N43675 W73015		H-2-44511-132 H-2-2322
222-S VAULT LINE	N34129 W73540		H-2-5140 H-2-5170
IND WASTE NO.01	N45466 TO N45119 W74435 TO W74847 N44602 TO N44784 W75177 TO W74932	NORTH EAST SCUTH WEST	H-2-2516 SURVEY NOTES
IND WASTE NO.02	N44584 TO N44235 W76302 TO W76954 N43230 W77560 TO W77446	NORTH EAST SOUTH WEST	H-2-32095 REVISION #4
DRY WASTE NO.	N55317	NORTH	H-2-32524

APPENDIX B

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200 AREA BURIAL GROUNDS

200-W AREA
BURIAL GROUNDS

COORDINATES

REFERENCE DRAWINGS

212-N

W65633

WEST

COORDINATES AND
REFERENCE

DRAWINGS ARE R. C. TABASINSKI PERSONAL
COMMUNICATION

DATE

FILMED

8/12/94

END