

## I. AIRBORNE RELEASES

## RADIOACTIVE EFFLUENT RELEASES

YEAR 1979

|  | UNITS   | 1st<br>QUARTER | 2nd<br>QUARTER | SUB-TOTAL |
|--|---------|----------------|----------------|-----------|
| 1. TOTAL NOBLE GASES                                       | CURIES  | 1.55E+04       | 1.93E+04       | 3.48E+04  |
| 2. TOTAL HALOGENS  | CURIES  | 5.68E-02       | 8.42E-02       | 1.41E-01  |
| 3. TOTAL PARTICULATE<br>GROSS BETA-GAMMA                   | CURIES  | 6.84E-03       | 1.53E-02       | 2.21E-02  |
| 4. TOTAL TRITIUM   | CURIES  | 1.81E+01       | 2.94E+00       | 2.11E+01  |
| 5. TOTAL PARTICULATE<br>GROSS ALPHA ACTIVITY               | CURIES  | 0.             | 0.             | 0.        |
| 6. MAXIMUM NOBLE GAS<br>RELEASE RATE                       | UCI/SEC | 1.60E+03       | 1.60E+03       | 1.60E+03  |
| 7. PERCENT OF APPLICABLE<br>LIMIT FOR:                     |         |                |                |           |
| A. NOBLE GASES   | %       | 3.04E+01       | 3.78E+01       | 6.83E+01  |
| B. HALOGENS  | %       | 1.49E+01       | 2.22E+01       | 3.71E+01  |
| C. PARTICULATES  | %       | 6.22E-01       | 1.39E+00       | 2.01E+00  |
| 8. ISOTOPES RELEASED                                       | CURIES  |                |                |           |
| PARTICULATES   |         |                |                |           |
| NA-22  |         | 2.05E-08       | 1.90E-08       | 3.94E-08  |
| NA-24  |         | 8.87E-06       | 2.44E-05       | 3.33E-05  |
| CR-51  |         | 4.78E-05       | 2.17E-04       | 2.64E-04  |
| MN-54  |         | 1.96E-05       | 8.07E-06       | 2.77E-05  |
| MN-56  |         | 3.89E-06       | 1.67E-06       | 5.56E-06  |
| CO-57  |         | 2.44E-08       | 4.70E-08       | 7.13E-08  |
| CO-58  |         | 5.04E-05       | 2.29E-05       | 7.33E-05  |
| CO-60  |         | 7.70E-06       | 1.45E-04       | 1.53E-04  |
| FE-59  |         | 5.06E-08       | 1.33E-05       | 1.34E-05  |
| NI-65  |         | 1.69E-06       | 4.24E-05       | 4.41E-05  |
| ZN-65  |         | 6.76E-08       | 1.74E-05       | 1.75E-05  |
| SR-89  |         | 5.39E-08       | 1.62E-07       | 2.16E-07  |
| SR-90  |         | 1.50E-08       | 7.94E-09       | 2.29E-08  |
| SR-91  |         | 8.00E-06       | 8.18E-05       | 8.98E-05  |
| SR-92  |         | 1.22E-05       | 9.18E-06       | 2.13E-05  |
| Y-91M  |         | 0.             | 0.             | 0.        |
| Y-92   |         | 0.             | 0.             | 0.        |
| NB-95  |         | 6.11E-08       | 2.12E-06       | 2.18E-06  |
| NB-97  |         | 3.57E-06       | 1.45E-05       | 1.81E-05  |
| ZR-95  |         | 1.23E-07       | 8.70E-06       | 8.82E-06  |
| ZR-97  |         | 3.49E-08       | 9.22E-07       | 9.57E-07  |
| MO-99  |         | 1.85E-05       | 1.85E-04       | 2.03E-04  |
| TC-99M   |         | 3.45E-06       | 3.19E-07       | 3.77E-06  |
| RU-103   |         | 2.02E-08       | 2.61E-08       | 4.62E-08  |
| RU-106   |         | 4.93E-05       | 2.53E-04       | 3.03E-04  |
| AG-108M  |         | 3.15E-08       | 2.93E-08       | 6.08E-08  |
| AG-110M  |         | 1.07E-04       | 5.42E-05       | 1.62E-04  |
| CD-109   |         | 0.             | 0.             | 0.        |
| CD-115   |         | 1.57E-03       | 5.29E-05       | 1.63E-03  |
| IN-115M  |         | 0.             | 0.             | 0.        |
| SB-124   |         | 0.             | 0.             | 0.        |
| SB-125   |         | 0.             | 0.             | 0.        |
| CS-134   |         | 1.36E-06       | 4.13E-05       | 4.26E-05  |
| CS-136   |         | 2.90E-05       | 1.23E-04       | 1.52E-04  |
| CS-137   |         | 5.57E-05       | 9.08E-06       | 6.47E-05  |
| CS-138   |         | 5.12E-05       | 3.59E-05       | 8.71E-05  |
| BA-139   |         | 5.96E-04       | 7.73E-04       | 1.37E-03  |
| BA-LA-140  |         | 0.             | 0.             | 0.        |
| CE-141   |         | 3.47E-06       | 1.01E-04       | 1.04E-04  |
| CE-144   |         | 0.             | 0.             | 0.        |
| N-187  |         | 9.87E-06       | 1.58E-04       | 1.68E-04  |
| NP-239   |         | 2.08E-06       | 6.52E-05       | 6.73E-05  |
| RB-88  |         | 1.38E-06       | 4.08E-05       | 4.22E-05  |
|  |         | 4.17E-03       | 1.28E-02       | 1.69E-02  |
| HALOGENS   |         |                |                |           |
| F-18   |         | 0.             | 0.             | 0.        |
| I-131  |         | 3.12E-02       | 5.62E-02       | 8.74E-02  |
| I-132  |         | 7.98E-04       | 1.23E-03       | 2.03E-03  |
| I-133  |         | 2.17E-02       | 2.08E-02       | 4.25E-02  |
| I-134  |         | 9.46E-05       | 4.65E-04       | 5.60E-04  |
| I-135  |         | 2.93E-03       | 5.59E-03       | 8.51E-03  |
| GASES  |         |                |                |           |
| AR-41  |         | 8.84E+00       | 1.49E+01       | 2.38E+01  |
| KR-85  |         | 2.59E+01       | 1.90E+02       | 2.16E+02  |
| KR-85M   |         | 2.42E+01       | 1.52E+01       | 3.93E+01  |
| KR-87  |         | 3.30E+00       | 2.49E+00       | 5.78E+00  |
| KR-88  |         | 1.75E+01       | 1.03E+01       | 2.78E+01  |
| XE-131M  |         | 3.78E+01       | 2.48E+02       | 2.86E+02  |
| XE-133   |         | 1.49E+04       | 1.83E+04       | 3.32E+04  |
| XE-133M  |         | 1.10E+02       | 1.54E+02       | 2.64E+02  |
| XE-135   |         | 3.76E+02       | 2.80E+02       | 6.56E+02  |
| XE-135M  |         | 3.27E+00       | 3.47E+01       | 3.80E+01  |
| XE-137   |         | 0.             | 9.49E+00       | 9.69E+00  |
| PARTICULATES AND IODINES<br>WITH T <sub>1/2</sub> > 8 DAYS |         | 3.61E-02       | 5.74E-02       | 8.90E-02  |

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## II. AIRBORNE RELEASES

## RADIOACTIVE EFFLUENT RELEASES

YEAR 197

|  | UNIT    | APRIL    | MAY      |          | SUB-TOTAL |
|--|---------|----------|----------|----------|-----------|
| 1. TOTAL NOBLE GASES                         | CURIES  | 5.31E+03 | 6.09E+03 | 7.89E+03 | 1.93E+04  |
| 2. TOTAL HALOGENS                            | CURIES  | 8.69E-03 | 4.01E-02 | 3.54E-02 | 8.42E-02  |
| 3. TOTAL PARTICULATE<br>GROSS BETA-GAMMA     | CURIES  | 2.92E-03 | 1.04E-02 | 1.97E-03 | 1.53E-02  |
| 4. TOTAL TRITIUM                             | CURIES  | 1.13E-01 | 2.53E+00 | 2.93E-01 | 2.94E+00  |
| 5. TOTAL PARTICULATE<br>GROSS ALPHA ACTIVITY | CURIES  | 0.       | 0.       | 0.       | 0.        |
| 6. MAXIMUM NOBLE GAS<br>RELEASE RATE         | UCI/SEC | 1.60E+03 | 1.60E+03 | 1.60E+03 | 1.60E+03  |
| 7. PERCENT OF APPLICABLE<br>LIMIT FOR:       |         |          |          |          |           |
| A. NOBLE GASES                               | %       | 1.04E+01 | 1.19E+01 | 1.55E+01 | 3.78E+01  |
| B. HALOGENS                                  | %       | 2.29E+00 | 1.05E+01 | 9.32E+00 | 2.22E+01  |
| C. PARTICULATES                              | %       | 2.66E-01 | 9.44E-01 | 1.79E-01 | 1.39E+00  |
| 8. ISOTOPES RELEASED                         | CURIES  |          |          |          |           |
| PARTICULATES                                 |         |          |          |          |           |
| NA-22  |         | 1.37E-08 | 5.21E-11 | 5.27E-09 | 1.90E-08  |
| NA-24  |         | 1.44E-08 | 2.44E-05 | 3.25E-09 | 2.44E-05  |
| CR-51  |         | 1.84E-05 | 1.64E-04 | 3.38E-05 | 2.17E-04  |
| MN-54  |         | 5.96E-07 | 3.30E-06 | 4.17E-06 | 8.07E-06  |
| MN-56  |         | 2.47E-07 | 1.20E-06 | 2.27E-07 | 1.67E-06  |
| CO-57  |         | 1.99E-08 | 2.14E-08 | 5.64E-09 | 4.70E-08  |
| CO-58  |         | 1.09E-06 | 1.73E-05 | 4.51E-06 | 2.29E-05  |
| CO-60  |         | 2.75E-06 | 1.39E-04 | 3.56E-06 | 1.45E-04  |
| FE-59  |         | 3.07E-08 | 1.29E-05 | 4.01E-07 | 1.33E-05  |
| NI-65  |         | 4.25E-06 | 3.55E-05 | 2.67E-06 | 4.24E-05  |
| ZN-65  |         | 3.54E-05 | 1.59E-05 | 1.50E-06 | 1.74E-05  |
| SR-89  |         | 4.75E-08 | 6.45E-08 | 4.98E-08 | 1.62E-07  |
| SR-90  |         | 2.33E-09 | 3.17E-09 | 2.45E-09 | 7.94E-09  |
| SR-91  |         | 5.20E-06 | 6.71E-05 | 9.56E-06 | 8.18E-05  |
| SR-92  |         | 2.20E-06 | 6.98E-06 | 6.04E-09 | 9.18E-06  |
| Y-91M  |         | 0.       | 0.       | 0.       | 0.        |
| Y-92   |         | 0.       | 0.       | 0.       | 0.        |
| NB-95  |         | 2.89E-07 | 1.83E-06 | 6.66E-09 | 2.12E-06  |
| NB-97  |         | 3.02E-06 | 9.12E-06 | 2.38E-06 | 1.45E-05  |
| ZR-95  |         | 2.36E-08 | 8.26E-06 | 4.18E-07 | 8.70E-06  |
| ZR-97  |         | 1.66E-08 | 9.03E-07 | 3.00E-09 | 9.22E-07  |
| MO-99  |         | 1.47E-05 | 1.39E-04 | 3.17E-05 | 1.85E-04  |
| TC-99M                                       |         | 1.88E-08 | 7.99E-10 | 2.99E-07 | 3.19E-07  |
| RU-103                                       |         | 1.76E-08 | 1.29E-09 | 7.21E-09 | 2.61E-08  |
| RU-106                                       |         | 2.22E-05 | 1.95E-04 | 3.64E-05 | 2.53E-04  |
| AG-108M                                      |         | 2.40E-08 | 1.02E-09 | 4.26E-09 | 2.93E-08  |
| AG-110M                                      |         | 6.00E-06 | 4.57E-05 | 2.46E-06 | 5.42E-05  |
| CD-109                                       |         | 0.       | 0.       | 0.       | 0.        |
| CD-115                                       |         | 1.17E-05 | 3.26E-05 | 8.58E-06 | 5.29E-05  |
| IN-115M                                      |         | 0.       | 0.       | 0.       | 0.        |
| SB-124                                       |         | 0.       | 0.       | 0.       | 0.        |
| SB-125                                       |         | 4.58E-06 | 3.23E-05 | 4.43E-06 | 4.13E-05  |
| CS-134                                       |         | 2.10E-05 | 2.09E-05 | 8.07E-05 | 1.23E-04  |
| CS-136                                       |         | 3.89E-06 | 4.22E-06 | 9.75E-07 | 9.08E-06  |
| CS-137                                       |         | 6.96E-06 | 1.68E-05 | 1.21E-05 | 3.59E-05  |
| CS-138                                       |         | 1.93E-04 | 3.56E-04 | 2.25E-04 | 7.73E-04  |
| BA-139                                       |         | 0.       | 0.       | 0.       | 0.        |
| BA-LA-140                                    |         | 7.03E-06 | 7.84E-05 | 1.54E-05 | 1.01E-04  |
| CE-141                                       |         | 0.       | 0.       | 0.       | 0.        |
| CE-144                                       |         | 1.27E-05 | 1.23E-04 | 2.25E-05 | 1.58E-04  |
| N-187  |         | 6.66E-06 | 4.85E-05 | 1.00E-05 | 6.52E-05  |
| NP-239                                       |         | 5.92E-06 | 3.05E-05 | 4.45E-06 | 4.08E-05  |
| RB-88  |         | 2.57E-03 | 8.76E-03 | 1.45E-03 | 1.28E-02  |
| HALOGENS                                     |         |          |          |          |           |
| F-18   |         | 0.       | 0.       | 0.       | 0.        |
| I-131  |         | 4.85E-03 | 2.86E-02 | 2.27E-02 | 5.62E-02  |
| I-132  |         | 1.97E-04 | 5.64E-04 | 4.71E-04 | 1.23E-03  |
| I-133  |         | 2.28E-03 | 8.62E-03 | 9.87E-03 | 2.08E-02  |
| I-134  |         | 3.48E-05 | 2.45E-04 | 1.86E-04 | 4.65E-04  |
| I-135  |         | 1.33E-03 | 2.03E-03 | 2.22E-03 | 5.59E-03  |
| GASES  |         |          |          |          |           |
| AR-41  |         | 1.44E+01 | 5.12E-02 | 3.93E-01 | 1.49E+01  |
| KR-85  |         | 6.07E+00 | 1.94E+01 | 1.65E+02 | 1.90E+02  |
| KR-85M                                       |         | 9.16E+00 | 4.96E+00 | 1.06E+00 | 1.52E+01  |
| KR-87  |         | 1.88E+00 | 4.92E-01 | 1.19E-01 | 2.49E+00  |
| KR-88  |         | 6.28E+00 | 3.25E+00 | 7.85E-01 | 1.03E+01  |
| XE-131M                                      |         | 4.82E+01 | 4.98E+01 | 1.50E+02 | 2.48E+02  |
| XE-133                                       |         | 5.06E+03 | 5.81E+03 | 7.45E+03 | 1.83E+04  |
| XE-133M                                      |         | 4.36E+01 | 4.36E+01 | 6.66E+01 | 1.54E+02  |
| XE-135                                       |         | 1.11E+02 | 1.15E+02 | 5.28E+01 | 2.80E+02  |
| XE-135M                                      |         | 2.37E+00 | 3.23E+01 | 7.48E-04 | 3.47E+01  |
| XE-137                                       |         | 0.       | 9.69E+00 | 1.98E-03 | 9.69E+00  |

## II. AIRBORNE RELEASES

## RADIOACTIVE EFFLUENT RELEASES

YEAR 197

|   | UNIT    | JANUARY  | FEBRUARY | MARCH    | SUB-TOTAL |
|---|---------|----------|----------|----------|-----------|
| 1. TOTAL NOBLE GASES                      | CURIES  | 4.23E+03 | 5.42E+03 | 5.87E+03 | 1.55E+04  |
| 2. TOTAL HALOGENS                         | CURIES  | 4.94E-03 | 9.03E-03 | 4.28E-02 | 5.68E-02  |
| 3. TOTAL PARTICULATE GROSS BETA-GAMMA     | CURIES  | 1.16E-03 | 3.31E-04 | 5.35E-03 | 6.84E-03  |
| 4. TOTAL TRITIUM                          | CURIES  | 1.61E+01 | 2.71E-02 | 2.03E+00 | 1.81E+01  |
| 5. TOTAL PARTICULATE GROSS ALPHA ACTIVITY | CURIES  | 0.       | 0.       | 0.       | 0.        |
| 6. MAXIMUM NOBLE GAS RELEASE RATE         | UCI/SEC | 1.60E+03 | 1.60E+03 | 1.60E+03 | 1.60E+03  |
| 7. PERCENT OF APPLICABLE LIMIT FOR:       |         |          |          |          |           |
| A. NOBLE GASES                            | %       | 8.30E+00 | 1.06E+01 | 1.15E+01 | 3.04E+01  |
| B. HALOGENS                               | %       | 1.30E+00 | 2.38E+00 | 1.13E+01 | 1.49E+01  |
| C. PARTICULATES                           | %       | 1.05E-01 | 3.01E-02 | 4.86E-01 | 6.22E-01  |
| 8. ISOTOPES RELEASED                      | CURIES  |          |          |          |           |
| PARTICULATES                              |         |          |          |          |           |
| NA-22                                     |         | 1.10E-08 | 4.02E-09 | 5.48E-09 | 2.05E-08  |
| NA-24                                     |         | 2.15E-08 | 0.       | 8.85E-06 | 9.87E-06  |
| CR-51                                     |         | 5.01E-07 | 1.69E-07 | 4.70E-05 | 4.78E-05  |
| MI-24                                     |         | 3.21E-07 | 3.18E-07 | 1.90E-05 | 1.96E-05  |
| MI-56                                     |         | 7.99E-08 | 9.48E-09 | 3.80E-06 | 3.89E-06  |
| CO-57                                     |         | 1.49E-08 | 3.40E-09 | 6.10E-09 | 2.44E-08  |
| CO-58                                     |         | 1.28E-05 | 5.03E-06 | 3.26E-05 | 5.04E-05  |
| CO-60                                     |         | 1.33E-06 | 1.99E-06 | 4.38E-06 | 7.70E-06  |
| FE-59                                     |         | 3.14E-09 | 4.92E-09 | 1.43E-08 | 5.06E-08  |
| NI-65                                     |         | 1.94E-08 | 3.55E-08 | 1.64E-06 | 1.69E-06  |
| ZN-65                                     |         | 3.12E-08 | 1.76E-08 | 1.88E-08 | 6.76E-08  |
| SR-90                                     |         | 1.80E-08 | 1.46E-08 | 2.13E-08 | 5.39E-08  |
| SR-90                                     |         | 5.01E-09 | 4.10E-09 | 5.99E-09 | 1.51E-08  |
| SR-91                                     |         | 7.90E-06 | 4.83E-08 | 5.57E-08 | 8.00E-06  |
| SR-92                                     |         | 4.76E-08 | 1.57E-06 | 1.05E-05 | 1.22E-05  |
| Y-91M                                     |         | 0.       | 0.       | 0.       | 0.        |
| Y-92                                      |         | 0.       | 0.       | 0.       | 0.        |
| NB-95                                     |         | 3.01E-08 | 2.78E-08 | 3.26E-09 | 6.11E-08  |
| NB-97                                     |         | 2.23E-06 | 1.15E-06 | 1.83E-07 | 3.57E-06  |
| ZR-95                                     |         | 3.53E-08 | 1.34E-08 | 7.44E-08 | 1.23E-07  |
| ZR-97                                     |         | 2.09E-08 | 5.84E-09 | 8.21E-09 | 3.49E-08  |
| MO-99                                     |         | 3.71E-07 | 1.33E-07 | 1.80E-05 | 1.85E-05  |
| TC-99M                                    |         | 1.44E-08 | 3.14E-08 | 3.41E-06 | 3.45E-06  |
| RU-103                                    |         | 1.21E-08 | 5.14E-09 | 2.97E-09 | 2.02E-08  |
| RU-106                                    |         | 4.58E-07 | 1.74E-07 | 4.87E-05 | 4.93E-05  |
| AG-108M                                   |         | 1.96E-08 | 4.17E-09 | 7.75E-09 | 3.15E-08  |
| AG-110M                                   |         | 3.48E-06 | 5.12E-07 | 1.03E-04 | 1.07E-04  |
| CD-109                                    |         | 0.       | 0.       | 0.       | 0.        |
| CD-115                                    |         | 1.33E-06 | 5.69E-06 | 1.57E-03 | 1.57E-03  |
| IN-115M                                   |         | 0.       | 0.       | 0.       | 0.        |
| SB-124                                    |         | 0.       | 0.       | 0.       | 0.        |
| SB-125                                    |         | 6.28E-08 | 3.57E-08 | 1.26E-06 | 1.36E-06  |
| CS-134                                    |         | 4.80E-06 | 6.33E-06 | 1.79E-05 | 2.90E-05  |
| CS-136                                    |         | 1.29E-06 | 3.96E-09 | 5.44E-05 | 5.57E-05  |
| CS-137                                    |         | 1.04E-05 | 2.51E-06 | 3.84E-05 | 5.12E-05  |
| CS-138                                    |         | 2.40E-04 | 3.55E-05 | 3.21E-04 | 5.96E-04  |
| BA-139                                    |         | 0.       | 0.       | 0.       | 0.        |
| BA-LA-140                                 |         | 1.02E-07 | 8.79E-07 | 2.49E-06 | 3.47E-06  |
| CE-141                                    |         | 0.       | 0.       | 0.       | 0.        |
| CE-144                                    |         | 3.95E-07 | 1.09E-07 | 9.37E-06 | 9.87E-06  |
| A-167                                     |         | 7.65E-08 | 4.16E-08 | 1.96E-06 | 2.08E-06  |
| NP-239                                    |         | 8.52E-08 | 4.78E-08 | 1.24E-06 | 1.38E-06  |
| RB-88                                     |         | 8.70E-04 | 2.68E-04 | 3.03E-03 | 4.17E-03  |
| HALOGENS                                  |         |          |          |          |           |
| F-18                                      |         | 0.       | 0.       | 0.       | 0.        |
| I-131                                     |         | 4.02E-03 | 2.03E-03 | 2.52E-02 | 3.12E-02  |
| I-132                                     |         | 2.84E-05 | 1.04E-05 | 7.60E-04 | 7.98E-04  |
| I-133                                     |         | 5.59E-04 | 6.92E-03 | 1.42E-02 | 2.17E-02  |
| I-134                                     |         | 3.11E-07 | 2.25E-06 | 9.20E-05 | 9.46E-05  |
| I-135                                     |         | 3.26E-04 | 7.95E-05 | 2.52E-03 | 2.93E-03  |
| GASES                                     |         |          |          |          |           |
| AR-41                                     |         | 3.20E+00 | 5.55E-01 | 5.11E+00 | 8.86E+00  |
| KR-85                                     |         | 1.22E+01 | 1.05E+01 | 3.17E+00 | 2.59E+01  |
| KR-85M                                    |         | 3.96E+00 | 4.25E+00 | 1.60E+01 | 2.42E+01  |
| KR-87                                     |         | 8.09E-01 | 2.88E-01 | 2.20E+00 | 3.30E+00  |
| KR-98                                     |         | 2.57E+00 | 3.04E+00 | 1.19E+01 | 1.75E+01  |
| XE-131M                                   |         | 2.45E+01 | 3.11E+00 | 1.02E+01 | 3.78E+01  |
| XE-133                                    |         | 4.11E+03 | 5.29E+03 | 5.49E+03 | 1.49E+04  |
| XE-133M                                   |         | 2.09E+01 | 2.86E+01 | 6.05E+01 | 1.10E+02  |
| XE-135                                    |         | 4.75E+01 | 7.26E+01 | 2.56E+02 | 3.76E+02  |
| XE-135M                                   |         | 0.       | 2.36E+01 | 3.04E+00 | 3.27E+00  |

# RADIOACTIVE EFFLUENT RELEASES

YEAR 1979

## 1. LIQUID RELEASES

### 1. GROSS RADIOACTIVITY

|                                   | UNITS  | 1st<br>QUARTER | 2nd<br>QUARTER | SUB-TOTAL |
|-----------------------------------|--------|----------------|----------------|-----------|
| A. TOTAL RELEASE                  | CURIES | 1.76E-01       | 2.96E-01       | 4.72E-01  |
| B. AVERAGE CONCENTRATION RELEASED | UCI/ML | 5.36E-10       | 6.12E-10       | 5.81E-10  |
| C. MAXIMUM CONCENTRATION RELEASED | UCI/ML | 1.56E-08       | 2.51E-08       | 2.15E-12  |

### 2. TRITIUM

|                                   |        |          |          |          |
|-----------------------------------|--------|----------|----------|----------|
| A. TOTAL RELEASE                  | CURIES | 1.66E+02 | 3.45E+02 | 5.11E+02 |
| B. AVERAGE CONCENTRATION RELEASED | UCI/ML | 5.04E-07 | 7.15E-07 | 6.30E-07 |

### 3. DISSOLVED NOBLE GASES

|                                   |        |          |          |          |
|-----------------------------------|--------|----------|----------|----------|
| A. TOTAL RELEASE                  | CURIES | 1.81E-01 | 3.32E-01 | 5.14E-01 |
| B. AVERAGE CONCENTRATION RELEASED | UCI/ML | 5.52E-10 | 6.88E-10 | 6.33E-10 |

### 4. GROSS ALPHA RADIOACTIVITY

|                                   |        |    |    |    |
|-----------------------------------|--------|----|----|----|
| A. TOTAL RELEASE                  | CURIES | 0. | 0. | 0. |
| B. AVERAGE CONCENTRATION RELEASED | UCI/ML | 0. | 0. | 0. |

### 5. VOLUME OF LIQUID WASTE DISCHARGE CANAL

|        |          |          |          |
|--------|----------|----------|----------|
| LITERS | 4.18E+07 | 4.36E+07 | 8.55E+07 |
|--------|----------|----------|----------|

### 5. VOLUME OF DILUTION WATER

|        |          |          |          |
|--------|----------|----------|----------|
| LITERS | 3.28E+11 | 4.83E+11 | 8.11E+11 |
|--------|----------|----------|----------|

### 7. ISOTOPES RELEASED

|           | CURIES   |          |          |
|-----------|----------|----------|----------|
| F-18      | 0.       | 0.       | 0.       |
| NA-24     | 2.17E-04 | 2.16E-05 | 2.38E-04 |
| AR-41     | 2.66E-05 | 8.14E-05 | 1.08E-04 |
| CR-51     | 9.61E-04 | 3.81E-03 | 4.77E-03 |
| MN-54     | 1.20E-03 | 1.72E-03 | 2.92E-03 |
| MN-56     | 0.       | 0.       | 0.       |
| CO-57     | 9.55E-05 | 7.03E-05 | 1.66E-04 |
| CO-58     | 3.18E-02 | 3.33E-02 | 6.51E-02 |
| CO-60     | 6.16E-03 | 1.05E-02 | 1.67E-02 |
| FE-59     | 3.25E-05 | 1.96E-04 | 2.28E-04 |
| NI-65     | 0.       | 0.       | 0.       |
| ZN-65     | 5.48E-06 | 0.       | 5.48E-06 |
| KR-85     | 6.00E-02 | 1.12E-01 | 1.72E-01 |
| KR-85M    | 5.13E-05 | 2.26E-05 | 7.39E-05 |
| KR-87     | 0.       | 0.       | 0.       |
| KR-88     | 0.       | 0.       | 0.       |
| Y-88      | 0.       | 0.       | 0.       |
| Y-92      | 0.       | 0.       | 0.       |
| SR-89     | 1.24E-02 | 5.14E-02 | 6.38E-02 |
| SR-90     | 2.78E-03 | 2.95E-03 | 5.72E-03 |
| SR-91     | 1.74E-05 | 4.77E-05 | 6.52E-05 |
| SR-92     | 3.86E-04 | 6.22E-04 | 1.01E-03 |
| NB-95     | 6.47E-04 | 1.09E-03 | 1.73E-03 |
| NB-97     | 2.14E-03 | 8.95E-03 | 1.11E-02 |
| ZR-95     | 1.76E-04 | 4.66E-04 | 6.42E-04 |
| ZR-97     | 1.85E-05 | 1.26E-04 | 1.44E-04 |
| MO-99     | 3.94E-05 | 6.50E-04 | 6.89E-04 |
| TC-99M    | 1.78E-04 | 3.15E-04 | 4.93E-04 |
| RU-103M   | 0.       | 0.       | 0.       |
| RU-106    | 8.43E-04 | 2.57E-03 | 3.41E-03 |
| AG-108M   | 0.       | 1.27E-04 | 1.27E-04 |
| AG-110M   | 1.64E-03 | 2.66E-03 | 4.30E-03 |
| CD-109    | 0.       | 0.       | 0.       |
| CD-115    | 1.54E-05 | 5.10E-05 | 6.64E-05 |
| CD-115M   | 0.       | 0.       | 0.       |
| IN-115M   | 0.       | 0.       | 0.       |
| SB-122    | 0.       | 0.       | 0.       |
| SB-124    | 0.       | 0.       | 0.       |
| SB-125    | 0.       | 0.       | 0.       |
| SN-123M   | 4.08E-04 | 1.07E-04 | 5.16E-04 |
| SN-125    | 0.       | 0.       | 0.       |
| I-131     | 3.68E-02 | 2.85E-02 | 6.54E-02 |
| I-132     | 0.       | 0.       | 0.       |
| I-133     | 3.35E-03 | 1.57E-03 | 4.91E-03 |
| I-134     | 7.23E-04 | 2.03E-04 | 9.26E-04 |
| I-135     | 4.88E-04 | 3.37E-04 | 8.24E-04 |
| XE-131M   | 2.97E-03 | 4.12E-03 | 7.09E-03 |
| XE-133    | 1.08E-01 | 2.07E-01 | 3.15E-01 |
| XE-133M   | 1.98E-03 | 1.87E-03 | 3.85E-03 |
| XE-135    | 7.75E-03 | 7.30E-03 | 1.51E-02 |
| CE-134    | 0.       | 0.       | 0.       |
| CE-141    | 0.       | 0.       | 0.       |
| CE-144    | 3.53E-04 | 2.33E-03 | 2.69E-03 |
| CS-134    | 2.57E-02 | 4.75E-02 | 7.32E-02 |
| CS-135M   | 0.       | 0.       | 0.       |
| CS-136    | 1.39E-04 | 2.86E-04 | 4.26E-04 |
| CS-137    | 4.60E-02 | 9.19E-02 | 1.38E-01 |
| CS-138    | 3.53E-05 | 7.36E-06 | 4.26E-05 |
| BA-139    | 0.       | 0.       | 0.       |
| BA-LA-140 | 2.12E-04 | 7.31E-04 | 9.43E-04 |
| N-187     | 3.44E-05 | 2.95E-04 | 3.29E-04 |
| NP-239    | 2.74E-05 | 5.85E-05 | 8.59E-05 |
| RU-103    | 0.       | 5.29E-05 | 5.29E-05 |

### 5. PERCENT OF TECHNICAL SPECIFICATIONS LIMIT (15 CI) FOR TOTAL ACTIVITY RELEASED

|          |          |          |
|----------|----------|----------|
| 1.17E+00 | 1.97E+00 | 3.14E+00 |
|----------|----------|----------|

| 1. LIQUID RELEASES   |        | RADIOACTIVE EFFLUENT RELEASES |          |          | YEAR 1979 |           |
|--|--------|-------------------------------|----------|----------|-----------|-----------|
|  |        | UNITS                         | APRIL    | MAY      | JUNE      | SUB-TOTAL |
| 1. GROSS RADIOACTIVITY   |        |                               |          |          |           |           |
| A. TOTAL RELEASE   | CURIES | 7.29E-02                      | 1.60E-01 | 6.30E-02 | 2.96E-01  |           |
| B. AVERAGE CONCENTRATION RELEASED  | UCI/ML | 3.66E-10                      | 9.50E-10 | 5.43E-10 | 6.12E-10  |           |
| C. MAXIMUM CONCENTRATION RELEASED  | UCI/ML | 1.82E-08                      | 3.67E-08 | 1.84E-08 | 2.51E-08  |           |
| 2. TRITIUM   |        |                               |          |          |           |           |
| A. TOTAL RELEASE   | CURIES | 1.33E+02                      | 1.37E+02 | 7.51E+01 | 3.45E+02  |           |
| B. AVERAGE CONCENTRATION RELEASED  | UCI/ML | 6.67E-07                      | 8.18E-07 | 6.48E-07 | 7.15E-07  |           |
| 3. DISSOLVED NOBLE GASES   |        |                               |          |          |           |           |
| A. TOTAL RELEASE   | CURIES | 1.51E-01                      | 1.07E-01 | 7.51E-02 | 3.32E-01  |           |
| B. AVERAGE CONCENTRATION RELEASED  | UCI/ML | 7.57E-10                      | 6.36E-10 | 6.48E-10 | 6.88E-10  |           |
| 4. GROSS ALPHA RADIOACTIVITY   |        |                               |          |          |           |           |
| A. TOTAL RELEASE   | CURIES | 0.                            | 0.       | 0.       | 0.        |           |
| B. AVERAGE CONCENTRATION RELEASED  | UCI/ML | 0.                            | 0.       | 0.       | 0.        |           |
| 5. VOLUME OF LIQUID WASTE TO DISCHARGE CANAL                                     |        |                               |          |          |           |           |
|  | LITERS | 1.49E+07                      | 1.61E+07 | 1.27E+07 | 4.36E+07  |           |
| 6. VOLUME OF DILUTION WATER  |        |                               |          |          |           |           |
|  | LITERS | 1.99E+11                      | 1.68E+11 | 1.16E+11 | 4.83E+11  |           |
| 7. ISOTOPES RELEASED   |        |                               |          |          |           |           |
|  | CURIES |                               |          |          |           |           |
| F-18   |        | 0.                            | 0.       | 0.       | 0.        |           |
| NA-24  |        | 1.21E-05                      | 9.55E-06 | 0.       | 2.16E-05  |           |
| AR-41  |        | 0.                            | 3.19E-05 | 4.95E-05 | 8.14E-05  |           |
| CR-51  |        | 6.22E-04                      | 2.12E-03 | 1.07E-03 | 3.81E-03  |           |
| MN-54  |        | 2.50E-04                      | 9.62E-04 | 5.12E-04 | 1.72E-03  |           |
| MN-56  |        | 0.                            | 0.       | 0.       | 0.        |           |
| CO-57  |        | 0.                            | 4.08E-05 | 2.95E-05 | 7.03E-05  |           |
| CO-58  |        | 3.87E-03                      | 1.75E-02 | 1.19E-02 | 3.33E-02  |           |
| CO-60  |        | 1.70E-03                      | 5.57E-03 | 3.23E-03 | 1.05E-02  |           |
| FE-59  |        | 0.                            | 1.57E-04 | 3.87E-05 | 1.96E-04  |           |
| NI-65  |        | 0.                            | 0.       | 0.       | 0.        |           |
| ZN-65  |        | 0.                            | 0.       | 0.       | 0.        |           |
| KR-85  |        | 2.92E-02                      | 5.66E-02 | 2.76E-02 | 1.12E-01  |           |
| KR-85M   |        | 2.26E-05                      | 0.       | 0.       | 2.26E-05  |           |
| KR-87  |        | 0.                            | 0.       | 0.       | 0.        |           |
| KR-88  |        | 0.                            | 0.       | 0.       | 0.        |           |
| Y-88   |        | 0.                            | 0.       | 0.       | 0.        |           |
| Y-92   |        | 0.                            | 0.       | 0.       | 0.        |           |
| SR-89  |        | 3.72E-02                      | 1.32E-02 | 1.08E-03 | 5.14E-02  |           |
| SR-90  |        | 1.31E-03                      | 1.27E-03 | 3.68E-04 | 2.95E-03  |           |
| SR-91  |        | 0.                            | 3.70E-05 | 1.07E-05 | 4.77E-05  |           |
| SR-92  |        | 8.10E-05                      | 2.57E-04 | 2.84E-04 | 6.22E-04  |           |
| NB-95  |        | 7.46E-05                      | 6.82E-04 | 3.29E-04 | 1.09E-03  |           |
| NB-97  |        | 1.47E-03                      | 3.17E-03 | 4.30E-03 | 8.95E-03  |           |
| ZR-95  |        | 0.                            | 4.16E-04 | 5.05E-05 | 4.66E-04  |           |
| ZR-97  |        | 0.                            | 1.04E-04 | 2.21E-05 | 1.26E-04  |           |
| MO-99  |        | 8.60E-06                      | 3.50E-04 | 2.92E-04 | 6.50E-04  |           |
| TC-99M   |        | 0.                            | 5.60E-05 | 2.59E-04 | 3.15E-04  |           |
| RU-103M  |        | 0.                            | 0.       | 0.       | 0.        |           |
| RU-106   |        | 5.70E-04                      | 1.36E-03 | 6.36E-04 | 2.57E-03  |           |
| AG-108M  |        | 0.                            | 1.27E-04 | 0.       | 1.27E-04  |           |
| AG-110M  |        | 5.50E-04                      | 9.72E-04 | 1.14E-03 | 2.66E-03  |           |
| CD-109   |        | 0.                            | 0.       | 0.       | 0.        |           |
| CD-115   |        | 0.                            | 3.83E-05 | 1.27E-05 | 5.10E-05  |           |
| CD-115M  |        | 0.                            | 0.       | 0.       | 0.        |           |
| IN-115M  |        | 0.                            | 0.       | 0.       | 0.        |           |
| SB-122   |        | 0.                            | 0.       | 0.       | 0.        |           |
| SB-124   |        | 0.                            | 0.       | 0.       | 0.        |           |
| SB-125   |        | 6.18E-06                      | 8.64E-05 | 1.48E-05 | 1.07E-04  |           |
| SN-123M  |        | 0.                            | 0.       | 0.       | 0.        |           |
| SN-125   |        | 0.                            | 0.       | 0.       | 0.        |           |
| I-131  |        | 6.81E-03                      | 1.36E-02 | 8.09E-03 | 2.85E-02  |           |
| I-132  |        | 0.                            | 0.       | 0.       | 0.        |           |
| I-133  |        | 3.65E-04                      | 6.60E-04 | 5.41E-04 | 1.57E-03  |           |
| I-134  |        | 2.52E-06                      | 7.31E-05 | 1.28E-04 | 2.03E-04  |           |
| I-135  |        | 0.                            | 3.37E-04 | 0.       | 3.37E-04  |           |
| XE-131M  |        | 9.49E-04                      | 2.66E-03 | 5.07E-04 | 4.12E-03  |           |
| XE-133   |        | 1.15E-01                      | 4.63E-02 | 4.48E-02 | 2.07E-01  |           |
| XE-133M  |        | 1.40E-03                      | 5.13E-05 | 4.14E-04 | 1.87E-03  |           |
| XE-135   |        | 4.59E-03                      | 1.05E-03 | 1.66E-03 | 7.30E-03  |           |
| CE-134   |        | 0.                            | 0.       | 0.       | 0.        |           |
| CE-141   |        | 0.                            | 0.       | 0.       | 0.        |           |
| CE-144   |        | 4.76E-04                      | 1.40E-03 | 4.62E-04 | 2.33E-03  |           |
| CS-134   |        | 5.55E-03                      | 3.30E-02 | 8.92E-03 | 4.75E-02  |           |
| CS-135M  |        | 0.                            | 0.       | 0.       | 0.        |           |
| CS-136   |        | 0.                            | 1.46E-04 | 1.40E-04 | 2.86E-04  |           |
| CS-137   |        | 1.19E-02                      | 6.13E-02 | 1.87E-02 | 9.19E-02  |           |
| CS-138   |        | 7.36E-06                      | 0.       | 0.       | 7.36E-06  |           |
| BA-139   |        | 0.                            | 0.       | 0.       | 0.        |           |
| BA-LA-140  |        | 6.73E-05                      | 4.36E-04 | 2.28E-04 | 7.31E-04  |           |
| N-187  |        | 7.89E-06                      | 1.89E-04 | 9.78E-05 | 2.95E-04  |           |
| NP-239   |        | 6.74E-06                      | 3.78E-05 | 1.40E-05 | 5.85E-05  |           |
| RU-103   |        | 0.                            | 5.29E-05 | 0.       | 5.29E-05  |           |
| 8. PERCENT OF TECHNICAL SPECIFICATIONS LIMIT (15 CI) FOR TOTAL ACTIVITY RELEASED |        |                               |          |          |           |           |
|  |        | 4.86E-01                      | 1.06E+00 | 4.20E-01 | 1.97E+00  |           |

# RADIOACTIVE EFFLUENT RELEASES

YEAR 1979

| I. LIQUID RELEASES   |        | UNITS    | JANUARY  | FEBRUARY | MARCH    | SUB-TOTAL |
|--|--------|----------|----------|----------|----------|-----------|
| 1. GROSS RADIOACTIVITY   |        |          |          |          |          |           |
| A. TOTAL RELEASE   | CURIES | 9.20E-02 | 4.42E-02 | 3.99E-02 | 1.76E-01 |           |
| B. AVERAGE CONCENTRATION RELEASED  | UCI/ML | 8.29E-10 | 5.18E-10 | 3.02E-10 | 5.36E-10 |           |
| C. MAXIMUM CONCENTRATION RELEASED  | UCI/ML | 1.81E-08 | 1.18E-08 | 1.62E-08 | 1.56E-08 |           |
| 2. TRITIUM   |        |          |          |          |          |           |
| A. TOTAL RELEASE   | CURIES | 5.04E+01 | 3.64E+01 | 7.88E+01 | 1.66E+02 |           |
| B. AVERAGE CONCENTRATION RELEASED  | UCI/ML | 4.54E-07 | 4.27E-07 | 5.97E-07 | 5.04E-07 |           |
| 3. DISSOLVED NOBLE GASES   |        |          |          |          |          |           |
| A. TOTAL RELEASE   | CURIES | 6.06E-02 | 4.42E-02 | 7.62E-02 | 1.81E-01 |           |
| B. AVERAGE CONCENTRATION RELEASED  | UCI/ML | 5.46E-10 | 5.18E-10 | 5.78E-10 | 5.52E-10 |           |
| 4. GROSS ALPHA RADIOACTIVITY   |        |          |          |          |          |           |
| A. TOTAL RELEASE   | CURIES | 0.       | 0.       | 0.       | 0.       |           |
| B. AVERAGE CONCENTRATION RELEASED  | UCI/ML | 0.       | 0.       | 0.       | 0.       |           |
| 5. VOLUME OF LIQUID WASTE TO DISCHARGE CANAL                                     |        |          |          |          |          |           |
|  | LITERS | 1.88E+07 | 1.39E+07 | 9.11E+06 | 4.18E+07 |           |
| 6. VOLUME OF DILUTION WATER  |        |          |          |          |          |           |
|  | LITERS | 1.11E+11 | 8.53E+10 | 1.32E+11 | 3.28E+11 |           |
| 7. ISOTOPES RELEASED   |        |          |          |          |          |           |
|  | CURIES |          |          |          |          |           |
| F-18   |        | 0.       | 0.       | 0.       | 0.       |           |
| NA-24  |        | 2.06E-04 | 4.96E-06 | 5.61E-05 | 2.17E-04 |           |
| AR-41  |        | 1.52E-05 | 0.       | 1.14E-05 | 2.66E-05 |           |
| CR-51  |        | 2.79E-04 | 4.65E-04 | 2.17E-04 | 9.61E-04 |           |
| MN-54  |        | 3.12E-04 | 3.62E-04 | 5.21E-04 | 1.20E-03 |           |
| MN-56  |        | 0.       | 0.       | 0.       | 0.       |           |
| CO-57  |        | 5.56E-05 | 2.02E-05 | 1.98E-05 | 9.55E-05 |           |
| CO-58  |        | 1.93E-02 | 5.19E-03 | 7.36E-03 | 3.18E-02 |           |
| CO-60  |        | 1.73E-03 | 1.46E-03 | 2.97E-03 | 6.16E-03 |           |
| FE-59  |        | 0.       | 0.       | 3.25E-05 | 3.25E-05 |           |
| NI-65  |        | 0.       | 0.       | 0.       | 0.       |           |
| ZN-65  |        | 0.       | 5.48E-06 | 0.       | 5.48E-06 |           |
| KR-85  |        | 2.14E-02 | 1.37E-02 | 2.50E-02 | 5.00E-02 |           |
| KR-85M   |        | 5.13E-05 | 0.       | 0.       | 5.13E-05 |           |
| KR-87  |        | 0.       | 0.       | 0.       | 0.       |           |
| KR-88  |        | 0.       | 0.       | 0.       | 0.       |           |
| Y-88   |        | 0.       | 0.       | 0.       | 0.       |           |
| Y-92   |        | 0.       | 0.       | 0.       | 0.       |           |
| SR-89  |        | 4.52E-03 | 2.50E-03 | 5.37E-03 | 1.24E-02 |           |
| SR-90  |        | 1.17E-03 | 1.04E-03 | 5.65E-04 | 2.78E-03 |           |
| SR-91  |        | 0.       | 0.       | 1.74E-05 | 1.74E-05 |           |
| SR-92  |        | 4.00E-05 | 9.73E-05 | 2.48E-04 | 3.86E-04 |           |
| NB-95  |        | 7.15E-05 | 1.61E-04 | 4.14E-04 | 6.47E-04 |           |
| NB-97  |        | 0.       | 6.85E-04 | 1.45E-03 | 2.14E-03 |           |
| ZR-95  |        | 0.       | 7.47E-05 | 1.01E-04 | 1.76E-04 |           |
| ZR-97  |        | 0.       | 4.61E-06 | 1.39E-05 | 1.85E-05 |           |
| MO-99  |        | 0.       | 0.       | 3.94E-05 | 3.94E-05 |           |
| TC-99M   |        | 9.46E-05 | 5.56E-05 | 2.78E-05 | 1.78E-04 |           |
| RU-103M  |        | 0.       | 0.       | 0.       | 0.       |           |
| RU-106   |        | 2.37E-04 | 2.99E-04 | 3.07E-04 | 8.43E-04 |           |
| AG-108M  |        | 0.       | 0.       | 0.       | 0.       |           |
| AG-110M  |        | 4.58E-04 | 4.82E-04 | 7.00E-04 | 1.64E-03 |           |
| CD-109   |        | 0.       | 0.       | 0.       | 0.       |           |
| CD-115   |        | 0.       | 0.       | 1.54E-05 | 1.54E-05 |           |
| CD-115M  |        | 0.       | 0.       | 0.       | 0.       |           |
| IN-115M  |        | 0.       | 0.       | 0.       | 0.       |           |
| SB-122   |        | 0.       | 0.       | 0.       | 0.       |           |
| SB-124   |        | 0.       | 0.       | 0.       | 0.       |           |
| SB-125   |        | 3.81E-04 | 0.       | 2.76E-05 | 4.08E-04 |           |
| SN-123M  |        | 0.       | 0.       | 0.       | 0.       |           |
| SN-125   |        | 0.       | 0.       | 0.       | 0.       |           |
| I-131  |        | 2.36E-02 | 6.67E-03 | 6.55E-03 | 3.68E-02 |           |
| I-132  |        | 0.       | 0.       | 0.       | 0.       |           |
| I-133  |        | 2.52E-03 | 4.97E-04 | 3.25E-04 | 3.35E-03 |           |
| I-134  |        | 0.       | 0.       | 7.23E-04 | 7.23E-04 |           |
| I-135  |        | 3.15E-04 | 1.73E-04 | 0.       | 4.88E-04 |           |
| XE-131M  |        | 2.13E-03 | 6.07E-04 | 2.31E-04 | 2.97E-03 |           |
| XE-133   |        | 3.35E-02 | 2.72E-02 | 4.75E-02 | 1.08E-01 |           |
| XE-133M  |        | 5.47E-04 | 6.35E-04 | 7.95E-04 | 1.98E-03 |           |
| XE-135   |        | 2.96E-03 | 2.12E-03 | 2.67E-03 | 7.75E-03 |           |
| CE-134   |        | 0.       | 0.       | 0.       | 0.       |           |
| CE-141   |        | 0.       | 0.       | 0.       | 0.       |           |
| CE-144   |        | 8.48E-05 | 9.70E-05 | 1.71E-04 | 3.53E-04 |           |
| CS-134   |        | 1.36E-02 | 8.37E-03 | 3.75E-03 | 2.57E-02 |           |
| CS-135M  |        | 0.       | 0.       | 0.       | 0.       |           |
| CS-136   |        | 1.31E-04 | 0.       | 8.67E-06 | 1.39E-04 |           |
| CS-137   |        | 2.29E-02 | 1.54E-02 | 7.69E-03 | 4.60E-02 |           |
| CS-138   |        | 1.25E-05 | 1.08E-05 | 1.19E-05 | 3.53E-05 |           |
| BA-139   |        | 0.       | 0.       | 0.       | 0.       |           |
| BA-LA-140  |        | 4.95E-05 | 1.86E-05 | 1.44E-04 | 2.12E-04 |           |
| W-187  |        | 0.       | 0.       | 3.44E-05 | 3.44E-05 |           |
| NP-239   |        | 0.       | 0.       | 2.74E-05 | 2.74E-05 |           |
| RU-103   |        | 0.       | 0.       | 0.       | 0.       |           |
| 8. PERCENT OF TECHNICAL SPECIFICATIONS LIMIT (15 CI) FOR TOTAL ACTIVITY RELEASED |        |          |          |          |          |           |
|  |        | 6.13E-01 | 2.95E-01 | 2.66E-01 | 1.17E+00 |           |

RADIOACTIVE EFFLUENT RELEASES  
SOLID WASTE

Total volume of solid waste packaged (cubic feet) 28291.3

Total estimated activity involved (curies) 1992.9

Disposal of materials shipped off-site: All shipments to Chem-Nuclear Systems, Inc. Waste Disposal Facility, at Barnwell, South Carolina.

| CUBIC FEET CURIES DATE |          |         | CUBIC FEET CURIES DATE |          |         |
|------------------------|----------|---------|------------------------|----------|---------|
| 130                    | 4.17     | 1-2-79  | 59                     | 186      | 4-5-79  |
| 13                     | 1.7      | 1-4-79  | 585                    | 8.8E-1   | 4-6-79  |
| 205                    | 3.9      | 1-4-79  | 205                    | 3.64     | 4-9-79  |
| 205                    | 7.06     | 1-8-79  | 85                     | 325.42   | 4-13-79 |
| 525                    | .5116    | 1-9-79  | 15                     | 1.24E-2  | 4-13-79 |
| 394                    | 6.74E-2  | 1-10-79 | 205                    | 1.96     | 4-13-79 |
| 205                    | 4.18     | 1-15-79 | 713                    | 6.863E-1 | 4-19-79 |
| 13                     | 1.19     | 1-16-79 | 1                      | 590      | 4-20-79 |
| 130                    | 3.14     | 1-16-79 | 80                     | 242.58   | 4-20-79 |
| 205                    | 2.52     | 1-18-79 | 205                    | 11.50    | 4-20-79 |
| 205                    | 4.3      | 1-23-79 | 1                      | 136.2    | 4-25-79 |
| 1080                   | 1.882    | 1-24-79 | 205                    | 3.77     | 4-27-79 |
| 205                    | 3.16     | 1-29-79 |                        |          |         |
| 40                     | 32.58    | 1-29-79 | 421                    | 1.5E-1   | 4-30-79 |
| 410                    | 5.05E-3  | 1-29-79 | 205                    | 4.55     | 5-2-79  |
| 205                    | 5.54     | 2-1-79  | 345                    | 3.907E-1 | 5-2-79  |
| 205                    | 3.59     | 2-5-79  | 205                    | 1.65     | 5-4-79  |
| 1017                   | 8.711    | 2-6-79  | 7.5                    | 2.9E-3   | 5-4-79  |
| 205                    | 2.713    | 2-9-79  | 205                    | 2.24     | 5-4-79  |
| 205                    | 1.87     | 2-13-79 | 205                    | 2.76     | 5-8-79  |
| 410                    | 5.1E-2   | 2-14-79 | 205                    | 5.53     | 5-11-79 |
| 930                    | 1.37     | 2-15-79 | 13                     | .51      | 5-12-79 |
| 205                    | 2.40     | 2-20-79 | 205                    | 1.065    | 5-14-79 |
| 205                    | 2.7E-2   | 2-22-79 | 205                    | 3.58     | 5-16-79 |
| 320                    | 3.0E-3   | 2-23-79 | 1078.5                 | 1.30     | 5-16-79 |
| 205                    | 3.48     | 2-23-79 | 205                    | 1.77     | 5-18-79 |
| 600                    | 5.35E-1  | 2-28-79 | 65                     | 155.08   | 5-18-79 |
| 205                    | 14.75    | 3-1-79  | 205                    | .04      | 5-22-79 |
| 205                    | 4.39     | 3-5-79  | 205                    | .85      | 5-23-79 |
| 30                     | 10.52    | 3-7-79  | 912                    | .61      | 5-24-79 |
| 205                    | 5.25     | 3-9-79  | 205                    | 4.4      | 5-30-79 |
| 205                    | 5.24     | 3-12-79 | 205                    | 3.23     | 6-1-79  |
| 205                    | 2.34     | 3-14-79 | 205                    | 1.57     | 6-5-79  |
| 570                    | .505     | 3-15-79 | 1056                   | .67      | 6-6-79  |
| 205                    | 3.01     | 3-19-79 | 205                    | 1.38     | 6-7-79  |
| 410                    | 5.74E-2  | 3-22-79 | 205                    | 1.30     | 6-8-79  |
| 523.34                 | 2.04E-4  | 3-19-79 | 13                     | 5.95     | 6-11-79 |
| 405.7                  | 3.4E-4   | 3-19-79 | 205                    | 1.63     | 6-12-79 |
| 497.82                 | 7.31E-4  | 3-20-79 | 1008                   | 1.35     | 6-14-79 |
| 497.82                 | 3.40E-4  | 3-20-79 | 205                    | 3.4      | 6-15-79 |
| 50                     | 4.078    | 3-22-79 | 205                    | 3.79     | 6-18-79 |
| 590.5                  | 9.35E-5  | 3-21-79 | 125                    | 3.21     | 6-21-79 |
| 554.62                 | 1.156E-4 | 3-21-79 | 125                    | 3.16     | 6-22-79 |
| 205                    | 3.08     | 3-23-79 | 150                    | 3.23     | 6-25-79 |
| 205                    | 1.06     | 3-23-79 | 35                     | 2.58     | 6-27-79 |
| 410                    | 7.4E-2   | 3-26-79 | 130                    | 1.27     | 6-27-79 |
| 205                    | 8.16     | 3-26-79 | 205                    | 1.43     | 6-28-79 |
| 13                     | 2.55E-1  | 3-28-79 | 205                    | 2.21     | 6-29-79 |
| 85                     | 67.54    | 3-29-79 | 360                    | .075     | 6-29-79 |
| 205                    | 2.34     | 4-2-79  | 610.5                  | .98      | 6-29-79 |
| 13                     | 1.19     | 4-5-79  |                        |          |         |