

REPORT OF RADIOACTIVE EFFLUENTS

LRP 1110-3  
Revision 0  
March 24, 1983  
YEAR: 1984

ATTACHMENT A

FACILITY: LASALLE COUNTY NPS UNIT 1      DOCKET NOS.: 50-373, 50-374

| Gaseous Effluents                  | UNITS   | JANUARY    | FEBRUARY | MARCH    | APRIL    | MAY      | JUNE     | 6MO. TOTAL | TECH. SPEC. REF. |
|------------------------------------|---------|------------|----------|----------|----------|----------|----------|------------|------------------|
| Gross Radioactivity Releases       |         |            |          |          |          |          |          |            |                  |
| a) Noble Gas Release Main Stack    | Curies  | 5.18E0     | 6.40E-1  | 1.22E1   | 4.07E1   | 3.96E1   | 1.25E1   | 1.11E2     | 6.6.A.1.a        |
| Maximum Release Rate (grab sample) | uCi/sec | 1.3E1      | 5.6E0    | 1.8E1    | 1.2E2    | 8.6E1    | 4.74E1   | 1.2E2      | 3.11.2.1         |
| Isotopes Released                  |         |            |          |          |          |          |          |            | 3.11.2           |
| Kr-85m                             | Curies  | <2.0E-8+   | <2.0E-8+ | <2.0E-8+ | <2.0E-8+ | 5.50E-1  | 1.58E-1  | 7.08E-1    |                  |
| Kr-87                              | Curies  | <2.7E-8+   | <2.7E-8+ | <2.7E-8+ | <2.7E-8+ | 8.82E-1  | <2.7E-8+ | 8.82E-1    |                  |
| Kr-88                              | Curies  | <6.1E-8+   | <6.1E-8+ | <6.1E-8+ | 2.83E1   | 1.69E0   | <6.1E-8+ | 3.00E1     |                  |
| Xe-133                             | Curies  | <2.3E-7+   | <2.3E-7+ | <2.3E-7+ | 7.55E0   | 1.46E1   | 3.76E0   | 2.59E1     |                  |
| Xe-135                             | Curies  | <1.9E-8+   | 4.75E-1  | <1.9E-8+ | 3.30E0   | 3.62E0   | 5.46E-1  | 7.94E0     |                  |
| Xe-135m                            | Curies  | <2.8E-8+   | <2.8E-8+ | <2.8E-8+ | <2.8E-8+ | <2.8E-8+ | <2.8E-8+ | 2.8E-8+    |                  |
| Xe-138                             | Curies  | <4.6E-8+   | <4.6E-8+ | <4.6E-8+ | <4.6E-8+ | 3.75E0   | 1.15E0   | 4.90E0     |                  |
| Ar-41                              | Curies  | 5.18E0     | 1.65E-1  | 1.22E1   | 1.58E0   | 1.45E1   | 6.92E0   | 4.05E1     |                  |
| Percent of Stack Limit             | %       | 2.2E-3     | 1.04E-4  | 5.16E-3  | 2.28E-2  | 9.34E-3  | 3.38E-3  | 4.30E-2    |                  |
| Average Release Rate               | uCi/sec | 1.93E0     | 2.55E-1  | 4.55E0   | 1.57E1   | 1.48E1   | 4.82E0   | 7.06E0     | 3.11.2.1.a       |
| Iodine in Stack Iodine Release     |         |            |          |          |          |          |          |            |                  |
| I-134                              | Curies  | -----      | -----    | -----    | -----    | 9.11E-5  | 3.1E-4   | 4.02E-4    | 6.6.A.4.b        |
| I-132                              | Curies  | -----      | -----    | -----    | 5.75E-4  | 2.89E-4  | 4.49E-4  | 1.31E-3    | 3.11.2.3         |
| I-131                              | Curies  | 3.53E-5    | 1.13E-4  | 2.66E-5  | 1.32E-4  | 1.64E-4  | 4.69E-4  | 9.40E-4    |                  |
| I-133                              | Curies  | 3.42E-4    | 7.34E-4  | 3.74E-4  | 2.73E-3  | 3.18E-3  | 3.60E-3  | 1.10E-2    |                  |
| I-135                              | Curies  | <6.01E-12+ | 4.9E-4   | 1.72E-4  | 1.91E-3  | 1.76E-3  | 2.03E-3  | 6.36E-3    |                  |
| Percent of Stack Limit             |         | 1.27E-5    | 3.45E-5  | 1.35E-5  | 2.89E-3  | 3.54E-3  | 9.07E-3  | 1.89E-2    |                  |
| Average Release Rate               | uCi/sec | 1.41E-4    | 5.34E-4  | 2.14E-4  | 2.06E-3  | 2.05E-3  | 2.65E-3  | 1.27E-3    | 3.11.2.1.b       |

+ Activity of each grab sample is less than LLD given (uCi/cc).

8408300513 840725 PDR ADDCK 05000373 PDR

**REPORT OF RADIOACTIVE EFFLUENTS**  
**ATTACHMENT A**

LRP 1110-13  
Revision 0  
March 24, 1983

FACILITY: LASALLE COUNTY NPS UNIT 1

DOCKET NOS.: 50-373, 50-374

YEAR: 6 1984

| 1. Gaseous Effluents (cont'd)     | UNITS       | JANUARY               | FEBRUARY              | MARCH                 | APRIL                 | MAY                   | JUNE                  | 6MO. TOTAL            | TECH. SPEC. REF. |
|-----------------------------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|
| 3. Main Stack Particulate Release |             |                       |                       |                       |                       |                       |                       |                       |                  |
| 3. Gross Radioactivity (β-γ)      | mili-curies | 5.69E-1               | 3.96E-1               | 6.90E2                | 2.41E1                | 1.33E0                | 4.37E0                | 7.21E2                | 6.6.A.4.b.       |
| 3. Gross Alpha Radioactivity      | mCi         | 1.68E-8               | 3.1E-9                | <1.2E-13 <sup>+</sup> | <1.6E-13 <sup>+</sup> | *                     | *                     | 1.99E-8               | 3.11.2.3         |
| 3. Isotopes Released              |             |                       |                       |                       |                       |                       |                       |                       | 3.11.2.3.        |
| Cr-51                             | mCi         | ---                   | ---                   | ---                   | ---                   | 2.53E-1               | ---                   | 2.53E-1               |                  |
| Mn-54                             | mCi         | 3.03E-1               | 1.62E-1               | 3.11E-1               | 3.2E-1                | 1.53E-1               | 2.91E-1               | 1.54E0                |                  |
| Co-58                             | mCi         | 8.61E-3               | <4.7E-13 <sup>+</sup> | 1.21E-2               | <4.7E-13 <sup>+</sup> | 2.79E-2               | <4.7E-13 <sup>+</sup> | 4.86E-2               |                  |
| Fe-59                             | mCi         | 6.97E-3               | 2.63E-2               | <4.9E-13 <sup>+</sup> | <4.9E-13 <sup>+</sup> | <4.9E-13 <sup>+</sup> | <4.9E-13 <sup>+</sup> | 3.33E-2               |                  |
| Co-60                             | mCi         | 1.93E-1               | 7.92E-2               | 1.25E-1               | 3.76E-1               | 1.63E-1               | 1.48E-1               | 1.08E0                |                  |
| Zn-65                             | mCi         | 1.58E-9               | <7.9E-13 <sup>+</sup> | <7.9E-13 <sup>+</sup> | 2.58E-2               | <7.9E-13 <sup>+</sup> | <7.9E-13 <sup>+</sup> | 2.58E-2               |                  |
| Sr-89                             | mCi         | <5.8E-9 <sup>+</sup>  | <5.1E-9 <sup>+</sup>  | 6.81E-8               | <1.1E-13 <sup>+</sup> | *                     | *                     | 6.81E-8               |                  |
| Sr-90                             | mCi         | 4.6E-9                | <2.9E-9 <sup>+</sup>  | 8.4E-9                | <5.4E-14 <sup>+</sup> | *                     | *                     | 1.30E-8               |                  |
| Sr-92                             | mCi         | ---                   | ---                   | ---                   | ---                   | ---                   | 1.79E-1               | 1.79E-1               |                  |
| R-18                              | mCi         | ---                   | ---                   | ---                   | 2.17E1                | ---                   | ---                   | 2.17E1                |                  |
| Rr-82                             | mCi         | ---                   | ---                   | 4.79E-2               | ---                   | ---                   | ---                   | 4.79E-2               |                  |
| Ac-110m                           | mCi         | ---                   | ---                   | 2.16E-2               | ---                   | ---                   | ---                   | 2.16E-2               |                  |
| Hg-99                             | mCi         | 5.72E-2               | 1.28E-1               | <4.6E-12 <sup>+</sup> | <4.6E-12 <sup>+</sup> | <4.6E-12 <sup>+</sup> | <4.6E-12 <sup>+</sup> | 1.85E-1               |                  |
| As-138                            | mCi         | ---                   | ---                   | 6.89E2                | 1.71E0                | ---                   | 2.67E0                | 6.93E2                |                  |
| As-134                            | mCi         | <3.4E-13 <sup>+</sup> | <3.4E-13 <sup>+</sup> | <3.4E-13 <sup>+</sup> | <3.4E-13 <sup>+</sup> | <3.4E-13 <sup>+</sup> | <3.4E-13 <sup>+</sup> | <3.4E-13 <sup>+</sup> |                  |
| As-139                            | mCi         | ---                   | ---                   | ---                   | ---                   | 7.32E-1               | 7.40E-1               | 1.49E0                |                  |
| As-137                            | mCi         | <5.8E-13 <sup>+</sup> | <5.8E-13 <sup>+</sup> | <5.8E-13 <sup>+</sup> | <5.8E-13 <sup>+</sup> | <5.8E-13 <sup>+</sup> | <5.8E-13 <sup>+</sup> | <5.8E-13 <sup>+</sup> |                  |
| La-140/La-140                     | mCi         | ---                   | ---                   | 6.13E-2               | ---                   | ---                   | ---                   | 6.13E-2               |                  |
| Ce-141                            | mCi         | <5.6E-13 <sup>+</sup> | <5.6E-13 <sup>+</sup> | <5.6E-13 <sup>+</sup> | <5.6E-13 <sup>+</sup> | <5.6E-13 <sup>+</sup> | <5.6E-13 <sup>+</sup> | <5.6E-13 <sup>+</sup> |                  |
| Ce-144                            | mCi         | <2.4E-12 <sup>+</sup> | <2.4E-12 <sup>+</sup> | <2.4E-12 <sup>+</sup> | <2.4E-12 <sup>+</sup> | <2.4E-12 <sup>+</sup> | <2.4E-12 <sup>+</sup> | <2.4E-12 <sup>+</sup> |                  |

\* Data to be presented in an errata to this report.

+ Activity of each sample is less than LLD given (μCi/cc).





REPORT OF RADIOACTIVE EFFLUENTS

ATTACHMENT A

LRP 1110-3  
Revision 0  
March 24, 1981

FACILITY: LASALLE COUNTY NPS UNIT 1

DOCKET NOS.: 50-373, 50-374

YEAR: 1981

| Liquid Effluents                                    | UNITS  | JANUARY  | FEBRUARY  | MARCH    | APRIL    | MAY           | JUNE     | 6MO. TOTAL | TECH. SPEC. REF. |
|---|--------|----------|-----------|----------|----------|---------------|----------|------------|------------------|
| Gross Radioactivity (β-γ)                           |        |          |           |          |          |               |          |            |                  |
| Total Release                                       | Curies | 1.23E-2  | 3.72E-2   | 2.50E-3  | 2.89E-3  | None Released | 3.49E-4  | 5.52E-2    | 6.6.A.4.b.       |
| Avg. Conc. Released                                 | uCi/ml | 5.83E-9  | 2.35E-8   | 2.51E-9  | 1.82E-9  | N/A           | 2.17E-9  | 8.57E-9    |                  |
| Max. Conc. Released                                 | uCi/ml | 1.95E-8  | 5.14E-8   | 5.24E-9  | 1.57E-8  | N/A           | 2.45E-9  | 5.14E-8    |                  |
| Percent of Tech Spec (based on Avg. Conc. Released) | %      | 4.14E-2  | 5.63E-1   | 2.92E-5  | 3.38E-5  | N/A           | 5.26E-6  | 6.03E-1    | 3.11.1.1         |
| Tritium   |        |          |           |          |          | None Released |          |            | 6.6.A.4.b.       |
| Total Release                                       | Curies | 2.52E-1  | 2.27E-1   | *        | *        | Released      | *        | 4.79E-1    |                  |
| Avg. Conc. Released                                 | uCi/ml | 2.64E-4  | 3.17E-4   | *        | *        | N/A           | *        | 1.61E-4    |                  |
| Percent of Tech Spec                                | %      | 2.62E-5  | 2.36E-5   | *        | *        | N/A           | *        | 4.97E-5    |                  |
| Dissolved Noble Gases                               |        |          |           |          |          | None Released |          |            | 6.6.A.4.b.       |
| Total Release                                       | Curies | 1.1E-5   | 1.41E-4   | None     | 8.64E-5  | Released      | None     | 2.39E-4    |                  |
| Avg. Conc. Released                                 | uCi/ml | 5.21E-12 | 8.92E-11  | Detected | 5.43E-11 | N/A           | Detected | 3.71E-11   |                  |
| Percent of Tech Spec                                | %      | N/A      | N/A       | N/A      | N/A      | N/A           | N/A      | N/A        | 3.11.1.1.        |
| Gross Alpha Radioactivity                           |        |          |           |          |          | None Released |          |            | 6.6.A.4.b.       |
| Total Release                                       | Curies | <2.87E-7 | <2.49E-7  | *        | *        | Released      | *        | <2.87E-7   |                  |
| Avg. Conc. Released                                 | uCi/ml | <3.0E-10 | <3.48E-10 | *        | *        | N/A           | *        | <3.48E-10  |                  |
| Volume of Liquid Waste                              | Liters | 9.56E5   | 7.15E5    | 5.06E5   | 6.64E5   | 0             | 1.41E5   | 2.98E6     |                  |
| Volume of Dilution Water                            | Liters | 2.11E9   | 1.58E9    | 9.94E8   | 1.59E9   | 0             | 1.61E8   | 6.44E9     |                  |

REPORT OF RADIOACTIVE EFFLUENTS

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Revision 0  
March 24, 1983

ATTACHMENT A

12 YEAR: 1984

FACILITY: LASALLE COUNTY NPS UNIT 1

DOCKET NOS.: 50-373, 50-374

| Liquid Effluents (cont'd) | UNITS       | JANUARY   | FEBRUARY  | MARCH     | APRIL     | MAY           | JUNE      | 6MO. TOTAL | TECH. SPEC. REF. |
|---------------------------|-------------|-----------|-----------|-----------|-----------|---------------|-----------|------------|------------------|
| Isotopes Released         | mili-curies | 1.23E1    | 3.72E1    | 2.50E0    | 2.89E0    | None Released | 3.49E-1   | 5.52E1     |                  |
| Cr-51                     | mCi         | 2.88E0    | 3.45E0    | 4.81E-1   | 5.15E-1   | -----         | ---       | 7.33E0     |                  |
| Mn-54                     | mCi         | 4.13E0    | 4.04E0    | 1.12E0    | 1.18E0    | -----         | 1.65E-1   | 1.06E1     |                  |
| Co-58                     | mCi         | 1.05E0    | 1.01E0    | 1.98E-1   | 2.64E-1   | -----         | 2.63E-2   | 2.55E0     |                  |
| Fe-59                     | mCi         | 1.17E-1   | 1.29E-2   | 2.02E-2   | 5.3E-3    | -----         | ---       | 1.55E-1    |                  |
| Co-60                     | mCi         | 1.95E0    | 1.97E0    | 5.44E-1   | 6.54E-1   | -----         | 1.35E-1   | 5.25E0     |                  |
| Zn-65                     | mCi         | 5.10E-1   | 4.69E-1   | 1.18E-1   | 1.71E-1   | -----         | 2.32E-2   | 1.29E0     |                  |
| Sr-89                     | mCi         | < 1.82E-3 | 1.67E-3   | *         | *         | -----         | *         | 1.67E-3    |                  |
| Sr-90                     | mCi         | < 8.40E-4 | < 5.01E-4 | *         | *         | -----         | *         | < 8.4E-4   |                  |
| Fe-55                     | mCi         | < 9.56E-1 | < 1.43E-1 | *         | *         | -----         | *         | < 9.56E-1  |                  |
| Na-24                     | mCi         | ---       | 4.06E0    | ---       | 1.11E-2   | -----         | ---       | 4.07E0     |                  |
| I-133                     | mCi         | ---       | 3.61E-2   | ---       | ---       | -----         | ---       | 3.61E-2    |                  |
| I-131                     | mCi         | ---       | 1.58E-2   | ---       | ---       | -----         | ---       | 1.58E-2    |                  |
| Ca-134                    | mCi         | < 2.65E-1 | < 1.98E-1 | < 1.40E-1 | < 1.50E-1 | -----         | < 3.19E-2 | < 2.65E-1  |                  |
| Ca-137                    | mCi         | < 2.96E-2 | < 2.21E-2 | < 1.56E-2 | < 1.68E-1 | -----         | < 3.57E-3 | < 2.96E-2  |                  |
| Y-89                      | mCi         | 1.5E-1    | 2.63E0    | < 1.06E-1 | < 1.14E-1 | -----         | < 2.41E-2 | 2.78E0     |                  |
| Te-99m                    | mCi         | 3.89E-2   | 4.12E-1   | ---       | ---       | -----         | ---       | 4.51E-1    |                  |
| As-76                     | mCi         | 1.39E-1   | 5.77E-1   | 2.0E-2    | ---       | -----         | ---       | 7.36E-1    |                  |
| Ce-144                    | mCi         | < 2.15E-1 | < 1.61E-1 | < 1.14E-1 | < 1.22E-1 | -----         | < 2.59E-2 | < 2.15E-1  |                  |
| Sb-124                    | mCi         | 4.7E-3    | 1.18E-1   | 2.3E-3    | ---       | -----         | ---       | 1.25E-1    |                  |
| Xe-133                    | mCi         | ---       | 4.21E-2   | ---       | 2.38E-2   | -----         | ---       | 6.59E-2    |                  |
| Sb-122                    | mCi         | ---       | 9.03E-2   | ---       | ---       | -----         | ---       | 9.03E-2    |                  |
| Xe-135                    | mCi         | 1.1E-2    | 9.9E-2    | ---       | 2.76E-2   | -----         | ---       | 1.38E-1    |                  |
| W-187                     | mCi         | 4.7E-2    | 3.7E-2    | ---       | ---       | -----         | ---       | 8.40E-2    |                  |

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REPORT OF RADIOACTIVE EFFLUENTS

LRP 1110-3  
Revision 0  
March 24, 1983  
14 YEAR: 1984

ATTACHMENT A

FACILITY: LASALLE COUNTY NPS UNIT 1

DOCKET NOS.: 50-373, 50-374

| Solid Waste Shipped Offsite                                   |            | UNITS                        | JANUARY               | FEBRUARY           | MARCH            | APRIL           | MAY             | JUNE    | 6MO. TOTAL | TECH. SPEC. REF. |
|---|------------|------------------------------|-----------------------|--------------------|------------------|-----------------|-----------------|---------|------------|------------------|
| Burial or Disposal  |            |                              |                       |                    |                  |                 |                 |         |            |                  |
| Spent Resins, Filter<br>Panes, Evaporator<br>Bottoms, etc.    |            |                              |                       |                    |                  |                 |                 |         |            | 6.6.A.4.1        |
| Quantity Shipped  | Cu. meters | 3.31E1                       | 3.84E1                | 4.20E1             | 3.11E1           | 4.24E1          | 7.03E0          | 1.94E2  |            |                  |
| Type of Waste   |            | Evap<br>Bottoms              | Evap<br>Bottoms       | Evap<br>Bottoms    | Evap<br>Bottoms  | Evap<br>Bottoms | Evap<br>Bottoms | N/A     |            |                  |
| Radioactivity - Total   | curies     | 6.818E0                      | 8.378E0               | 6.739E0            | 4.924E0          | 1.327E1         | 1.544E0         | 4.167E1 |            |                  |
| Measured or Estimated?  |            | Measured                     | Measured              | Measured           | Measured         | Measured        | Measured        | N/A     |            |                  |
| Principle Radionuclides                                       |            | Cr-51, Fe-59<br>Co-58, Mn-54 | Same                  | Same               | Same             | Same            | Same            | N/A     |            |                  |
| Measured or Estimated?  |            | Measured                     | Measured              | Measured           | Measured         | Measured        | Measured        | N/A     |            |                  |
| Type of Container (LSA,<br>Type A, Type B, Lge. Quantity)     |            | LSA                          | LSA                   | LSA                | LSA              | LSA             | LSA             | N/A     |            |                  |
| Container Volume  | Cu. meters | 2.12E-1                      | 2.12E-1 or<br>3.29E-1 | Same as<br>Feb.    | Same as<br>Feb.  | Same as<br>Feb. | Same as<br>Feb. | N/A     |            |                  |
| Stabilification Agent   |            | Cement                       | Cement                | Cement             | Cement           | Cement          | Cement          | N/A     |            |                  |
| Is Dry Compressible<br>Waste, Contaminated<br>Equipment, etc. |            |                              |                       |                    |                  |                 | None            |         |            | 6.6.A.4.1        |
| Quantity Shipped  | Cu. meters | 3.25E1                       | 1.93E1                | 4.63E1             | 2.66E1           | 1.29E1          | Shipped         | 1.38E2  |            |                  |
| Radioactivity - Total   | Curies     | 1.251E-1                     | 3.11E-2               | 8.86E-1            | 1.00E-1          | 7.05E-2         | N/A             | 1.21E0  |            |                  |
| Measured or Estimate?   |            | Measured                     | Measured              | Measured           | Measured         | Measured        | N/A             | N/A     |            |                  |
| Principle Radionuclides                                       |            | Cr-51, Fe-59<br>Co-58, Mn-54 | Same                  | Same               | Same             | Same            | N/A             | N/A     |            |                  |
| Measured or Estimate?   |            | Measured                     | Measured              | Measured           | Measured         | Measured        | N/A             | N/A     |            |                  |
| Type of Container (LSA,<br>Type A, Type B, Lge. Quantity)     |            | LSA                          | LSA                   | LSA                | LSA              | LSA             | N/A             | N/A     |            |                  |
| Container Volume  | Cu. meters | 2.12E-1 or<br>2.72E0         | Same                  | Same or<br>3.29E-1 | Same as<br>March | Same as<br>Jan. | N/A             | N/A     |            |                  |
| Type of Waste   |            | DAW                          | DAW                   | DAW                | DAW              | DAW             | N/A             | N/A     |            |                  |



RWA - Richland, Washington  
 BSC - Barnwell, South Carolina  
 CN - Chem Nuclear Co.  
 HN - Hittman Nuclear & Development Co.

SOLID RADIOACTIVE WASTE SUMMARY  
 UNITS 1/2  
 LASALLE COUNTY NUCLEAR POWER STATION

LRP 1110-3  
 Revision 0  
 March 24, 1983  
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ATTACHMENT A

| DATE    | DISPOSITION OF MATERIAL |             | Type of Waste | Type of Container | Solidification Agent | Principle Nuclides | Shipment Volume (ft <sup>3</sup> ) | Shipment Activity (mCi) | Volume per Month (ft <sup>3</sup> ) | Activity Per Month (mCi) |
|---------|-------------------------|-------------|---------------|-------------------|----------------------|--------------------|------------------------------------|-------------------------|-------------------------------------|--------------------------|
|         | TRANS CO.               | BURIAL SITE |               |                   |                      |                    |                                    |                         |                                     |                          |
| 04JAN84 | Tri-State M.T.          | RWA         | Evap Bottoms  | LSA               | Cement               | Cr-51              | 300                                | 1246                    | 300                                 | 1246                     |
| 07JAN84 | Tri-State M.T.          | RWA         | EB & DAW      | LSA               | Cement               | Fe-59              | 352.5                              | 864.3                   | 652.5                               | 2110.3                   |
| 13JAN84 | Tri-State M.T.          | RWA         | EB & DAW      | LSA               | Cement               | Co-58              | 396                                | 993.3                   | 1048.5                              | 3103.6                   |
| 17JAN84 | Tri-State M.T.          | RWA         | EB & DAW      | LSA               | Cement               | Co-60              | 514.5                              | 1074                    | 1563                                | 4177.6                   |
| 23JAN84 | Tri-State M.T.          | RWA         | EB & DAW      | LSA               | Cement               | Mn-54              | 486                                | 1251.9                  | 2049                                | 5429.5                   |
| 25JAN84 | Tri-State M.T.          | RWA         | Evap Bottoms  | LSA               | Cement               | Zn-65              | 270                                | 1513.6                  | 2319                                | 6943.1                   |
| 01FEB84 | Tri-State M.T.          | RWA         | Evap Bottoms  | LSA               | Cement               | Cr-51              | 270                                | 1621.7                  | 270                                 | 1621.7                   |
| 01FEB84 | CN                      | RWA         | Evap Bottoms  | LSA               | Cement               | Fe-59              | 240                                | 1545.4                  | 510                                 | 3167.1                   |
| 09FEB84 | Tri-State M.T.          | RWA         | EB & DAW      | LSA               | Cement               | Co-58              | 462                                | 941.3                   | 972                                 | 4108.1                   |
| 17FEB84 | Tri-State M.T.          | RWA         | EB & DAW      | LSA               | Cement               | Co-60              | 359.2                              | 1348.3                  | 1331.2                              | 5456.7                   |
| 17FEB84 | CN                      | BSC         | Evap Bottoms  | LSA               | Cement               | Mn-54              | 248.2                              | 1888.9                  | 1579.4                              | 7345.6                   |
| 24FEB84 | Tri-State M.T.          | RWA         | EB & DAW      | LSA               | Cement               | Zn-65              | 458.6                              | 1063.3                  | 2038.0                              | 8408.9                   |
| 02MAR84 | Tri-State M.T.          | RWA         | EB & DAW      | LSA               | Cement               | Cr-51              | 488.6                              | 1140.7                  | 488.6                               | 1140.7                   |
| 02MAR84 | Tri-State M.T.          | RWA         | DAW           | LSA               | N/A                  | Fe-59              | 580.8                              | 70.1                    | 1069.4                              | 1210.8                   |
| 02MAR84 | Tri-State M.T.          | RWA         | EB & DAW      | LSA               | Cement               | Co-58              | 322.5                              | 1265.0                  | 1391.9                              | 2475.8                   |
| 02MAR84 | Tri-State M.T.          | RWA         | EB & DAW      | LSA               | Cement               | Co-60              | 396.0                              | 1582.4                  | 1787.9                              | 4058.2                   |
| 02MAR84 | Tri-State M.T.          | RWA         | EB & DAW      | LSA               | Cement               | Mn-54              | 322.5                              | 1417.0                  | 2110.4                              | 5475.1                   |
| 02MAR84 | Tri-State M.T.          | RWA         | DAW           | LSA               | N/A                  | Zn-65              | 676.5                              | 717.8                   | 2786.9                              | 6193.0                   |
| 02MAR84 | Tri-State M.T.          | RWA         | EB & DAW      | LSA               | Cement               |                    | 330.0                              | 1432.0                  | 3116.9                              | 7625.0                   |
| 02APR84 | Tri-State M.T.          | RWA         | EB & DAW      | LSA               | Cement               | Cr-51              | 338.2                              | 1305.4                  | 338.2                               | 1305.2                   |
| 02APR84 | Tri-State M.T.          | RWA         | Evap. Bottoms | LSA               | Cement               | Fe-59              | 326.6                              | 1424.1                  | 664.8                               | 2720.2                   |
| 02APR84 | Tri-State M.T.          | RWA         | EB & DAW      | LSA               | Cement               | Co-58              | 366                                | 1315.8                  | 1030.8                              | 4000.1                   |
| 02APR84 | Tri-State M.T.          | RWA         | EB & DAW      | LSA               | Cement               | Co-60              | 423.3                              | 901.6                   | 1454.1                              | 4000.1                   |
| 02APR84 | Tri-State M.T.          | RWA         | DAW           | LSA               | N/A                  | Mn-54              | 582.7                              | 77.0                    | 2036.8                              | 5000.1                   |



March 5, 1984

TO: F. R. Lawless

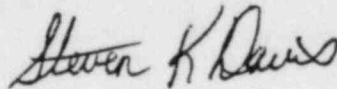
SUBJECT: Summary of Changes to the LaSalle County Station  
Process Control Program

The following is a summary of changes to the LaSalle County Station (LSCS) Process Control Program (PCP), LAP-200-6, Revision 2 dated 12/29/83.

- A. 10CFR61 was added as reference material in part B "References" of the procedure.
- B. The remaining changes were made to Attachment A of the procedure and are described below:
  1. Part I points out that the LSCS PCP satisfies the requirements of 10CFR61. That is to say the PCP satisfies the requirements of 10CFR61 as interpreted by LaSalle Station and Commonwealth Edison Company at the time the procedure was revised.
  2. Part V, subparts E, F, G and H redefine what constitutes a batch for various sludge tanks. This subpart points out that a batch is considered to be the contents of the tank when a sludge sample is drawn, and that a new batch would not have to be established until the tanks were to receive a significant sludge input. These subparts go on to describe that the solidification of waste from these waste tanks shall cease until new sludge samples are drawn. This is to ensure the isotopic breakdown of the sludge in any given batch will remain constant. These subparts also describe that the water content of the waste is controlled in the solidification system decanting stations prior to solidification and isotopic breakdown or other waste characteristics are not expected to change significantly by the addition of water.
  3. Part VI, subpart A had previously identified ASTM-C150-1981 as the specification to which all incoming cement shipments were to comply. To avoid revising the PCP each year this ASTM was updated, this subpart was changed to merely indicate ASTM-C150 to be the applicable specification.

4. Part VII, subpart A describes the analysis for isotopic breakdown. This subpart was changed to include the determination of the activity and percent abundance of radionuclides addressed in 10CFR61.
5. Part VII, subpart C had previously indicated that damaged drums would be placed in 70 gallon drums for shipment. This subpart was changed to indicate that damaged drums would be shipped in 83 gallon drums rather than 70 gallon drums.
6. Appendix A of Attachment A, parts I-V had previously indicated drum mixing times to be 10 minutes during the first mixing step, and 5 minutes during the second mixing step. For the sake of conservatism these parts were changed to indicate that the first and second drum mixing times to be set at a minimum 10 minutes and 5 minutes respectively (rather than an absolute 10 minute and 5 minute setting).

If you have any questions, please feel free to call me at ext. 487.



Steven K. Davis  
Radwaste Coordinator

SKD/psk

xc: Jim Marshall

ACCELERATED

AIR #

MOD #

RUSH

DELETE

ATTACHMENT A  
PROCEDURE CHANGE FORM

LAP 320-2  
Revision 21  
October 26, 1983  
13

DISK NO. 1

PART I - ORIGATION

PROCEDURE NO: LAP-200-6

REVISION 2

DATE 3/1/83

1. DESCRIPTION: (Please be Specific)

Incorporate regts of 10 CFR 61, which the NRC will implement on 12/27/83. This is the LSCS Solid Radwaste Process Control Program.

2. SKK 12/10/83  
ORIGINATOR DATE

3. J Marshall 12/10/83  
DEPARTMENT HEAD DATE

S. Davis 1487  
WRITER ASSIGNED

4. S. Marchai 12-13-83  
OFFICE SUPERVISOR (FOR REVISION ONLY)

PART II - PREPARATION

A. PRIMARY DRAFT

5. SKK 12/19/83  
WRITER DATE

6. Lynn Olson 12-23-83  
PROCEDURE COORDINATOR DATE

7. P. Welsh 12-23-83  
OFFICE SUPERVISOR DATE

PROCEDURE CHANGE NO: 43-100

8. SKK 12/30/83  
WRITER DATE

9. MAJOR CORRECTIONS (if Required) Dept. Head Sign Below: Sign in Part III if ONLY MINOR typing corrections are necessary.

9. DEPARTMENT HEAD DATE

10. OFFICE SUPERVISOR

11. WRITER DATE

PART III - ON SITE REVIEW AND APPROVAL AUTHORIZATION

J Marshall 1/3/84  
OFFICE APPROVAL DATE

D. Bush 1/4/84  
OFFICE SUPV. APPROVAL DATE

RAD/CHEM SUPV. APPROVAL-DATE

MASTER MECH. APPROVAL DATE

MASTER ELEC. APPROVAL DATE

MASTER INSTR. MECH. APR. DATE

N. D. Bush 1/5/84  
TRNG. DEPT. SUPV. APR. DATE

STORES SUPV. APPROVAL DATE

SECURITY ADMIN. APR. DATE

OFF. SUPERVISOR DATE

Smith 1/6/84  
INS. APPROVAL DATE

J. Coora 1-9-84  
MAINT. ASS'T. SUPT. APR-DATE

R.D. Bush 1-9-84  
ADMIN. & SUPPORT SERV. DATE ASS'T. SUPT.

P. Blazynski 1-11-84  
OPER. ASS'T. SUPT. DATE

OFFICE SUPERVISOR DATE

14. P. Welsh 1/11/84  
OFFICE SUPERVISOR DATE

15. S. Davis 1/15/84  
WRITER DATE

RETYPE (See F. 15b)

15b. ADMIN. & SUPPORT SERV. DATE ASS'T. SUPT.

R.D. Bush 1-16-84  
SUPERINTENDENT ADMIN. DATE

WORD PROCESSING UPDATE INDEX

19. P. Welsh 1/16/84  
OFFICE SUPERVISOR DATE

TO CENTRAL FILE FOR DISTRIBUTION