

*Appendix A*  
*Safety System Oversight/Subject Matter Expertise by Site Office*

**Table A17 – Summary of Needs and Assignments: EM RL  
Richland Operations Office \***

| Safety System Category  | Applicable Technical Qualification Area<br>(FTEs Assigned/FTEs Needed for Safety System Oversight) |          |                |                |                |                |            |                |            |                |               |          |                |
|-------------------------|--|----------|----------------|----------------|----------------|----------------|------------|----------------|------------|----------------|---------------|----------|----------------|
|                         | # of SSs   | NE       | ME             | EE             | I/C            | CRIT           | ChE<br>PrE | FP             | OS<br>(IH) | RP             | C/SE<br>(NPH) | EP       | Total          |
| Confinement Ventilation | 31   | /        | 1.2/1.2        | /              | 0.1/0.1        | /              | /          | /              | /          | 0.1/0.1        | /             | /        | 1.4/1.4        |
| Fire Protection         | 27   | /        | /              | /              | /              | /              | /          | 1.0/2.0        | /          | /              | /             | /        | 1.0/2.0        |
| Electrical              | 5  | /        | /              | 0.3/0.3        | 0.1/0.1        | /              | /          | /              | /          | /              | /             | /        | 0.4/0.4        |
| Radiation Monitoring    | 14   | /        | /              | /              | 0.2/0.2        | 1.5/1.5        | /          | /              | /          | 0.3/0.3        | /             | /        | 2.0/2.0        |
| Hoist & Crane           | 1  | /        | 0.2/0.2        | /              | /              | /              | /          | /              | /          | /              | /             | /        | 0.2/0.2        |
| Process                 | 16   | /        | /              | /              | 0.3/0.3        | /              | /          | /              | /          | 0.1/0.1        | /             | /        | 0.4/0.4        |
| Communication           | 2  | /        | /              | /              | /              | /              | /          | /              | /          | /              | /             | /        | /              |
| Gas & Air               | 5  | /        | 0.4/0.4        | /              | 0.1/0.1        | /              | /          | /              | /          | /              | /             | /        | 0.5/0.5        |
| Other                   | 1  | /        | /              | /              | /              | /              | /          | /              | /          | /              | /             | /        | /              |
| <b>Total</b>            | <b>102</b>   | <b>/</b> | <b>1.8/1.8</b> | <b>0.3/0.3</b> | <b>0.8/0.8</b> | <b>1.5/1.5</b> | <b>/</b>   | <b>1.0/2.0</b> | <b>/</b>   | <b>0.5/0.5</b> | <b>/</b>      | <b>/</b> | <b>5.9/6.9</b> |

| Subject Matter Experts by TQP Functional Area  | FTEs needed for SS oversight | Names                            | Comments  |
|--|------------------------------|----------------------------------|---|
| Mechanical (including Confinement Ventilation) | 1.8                          | Mark Hahn,<br>Al Colburn         |   |
| Electrical                                     | 0.3                          | Dor Collado                      |   |
| Instrumentation and Control                    | 0.8                          | Jim McCracken                    |   |
| Criticality                                    | 1.5                          | Tom Nirider,<br>Shiv Seth (0.5)  |   |
| Fire Protection                                | 2.0                          | Craig Christensen,<br>FP Vacancy | Selection to fill vacancy made on 2/07/03, pending approval from EM-1 |
| Radiological Protection                        | 0.5                          | Brenda Pangborn                  |   |

\* RL groups its safety systems into functional area categories for subject matter expert assignments. Many of these systems are in facilities that are in the surveillance and maintenance mode. RL also has back-up safety personnel assigned to safety programs.