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|  | <b>Current Part 61</b> | <b>Staff's Preliminary Proposed Amendments (August 2011)</b> | <b>COM Expanded Direction (January 2012)</b> |
|--|------------------------|--|--|

| <b>Performance Objectives</b>                                |   |  |  |
|--|---|--|--|
| <b>Protection of General Population from Releases §61.41</b> | <p>Concentrations released must not result in annual dose exceeding 25 mrem (whole body), 75 mrem (thyroid), 25 mrem (any other organ).</p> <p>Releases should be maintained as low as reasonably achievable.</p> | <p>Concentrations released must not result in annual dose exceeding 25 mrem total effective dose equivalent.</p> <p>Releases should be maintained as low as reasonably achievable.</p> <p>Demonstrated through a performance assessment that estimates peak annual dose within 20,000 years following closure.</p> | <p>Concentrations released must not result in annual dose exceeding 25 mrem total effective dose equivalent.</p> <p>Releases should be maintained as low as reasonably achievable.</p> <p>Demonstrated through a performance assessment.</p> <p>Commission agrees that there is value in considering whether to incorporate a two-tiered approach that establishes a compliance period that covers the reasonably foreseeable future and a longer period of performance that is not a priori and is established to evaluate the performance of the site over longer timeframes. The period of performance is developed based on the candidate site characteristics and the peak dose to a designated receptor.</p> |

|   | Current Part 61   | Staff's Preliminary Proposed Amendments (August 2011)   | COM Expanded Direction (January 2012)  |
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| <p><b>Protection of Individuals from Inadvertent Intrusion §61.42</b></p> | <p>Design, operation, and closure of the disposal facility must ensure protection of any individual inadvertently intruding into the disposal site and occupying the site or contacting the waste at any time after active institutional controls over the disposal site are removed.</p> | <p>Design, operation, and closure of the disposal facility must ensure protection of any individual inadvertently intruding into the disposal site and occupying the site or contacting the waste at any time after active institutional controls over the disposal site are removed.</p> <p>Demonstrated through an intruder assessment that estimates peak annual dose that occurs within 20,000 years following closure.</p> | <p>Design, operation, and closure of the disposal facility must ensure protection of any individual inadvertently intruding into the disposal site and occupying the site or contacting the waste at any time after active institutional controls over the disposal site are removed.</p> <p>Demonstrated through an intruder assessment</p> <p>Commission agrees that there is value in considering whether to incorporate a two-tiered approach that establishes a compliance period that covers the reasonably foreseeable future and a longer period of performance that is not a priori and is established to evaluate the performance of the site over longer timeframes. The period of performance is developed based on the candidate site characteristics and the peak dose to a designated receptor.</p> |

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| <b>Technical Analyses</b>   |   |  |   |
| §61.13(a)                   | Requirements for pathways analysis  | Requirements for performance assessment  | Requirements for performance assessment<br><br>Commission agrees that there is value in considering whether to incorporate flexibility to allow the use of ICRP dose methodologies in a site-specific performance assessment for the disposal of all radioactive waste  |
| §61.13(b)                   | Waste classification and segregation requirements<br><br>Adequate barriers to inadvertent intrusion | Waste classification and segregation requirements<br><br>Adequate barriers to inadvertent intrusion<br><br>Intruder assessment | Waste classification and segregation requirements<br><br>Adequate barriers to inadvertent intrusion<br><br>Intruder assessment  |
| §61.13(e)                   | N/A   | Requirements for analysis of long-lived waste  |   |
| <b>Waste Classification</b> |   |  |   |
|                             | Waste classification and segregation requirements specified at §61.55                               | Waste classification and segregation requirements specified at §61.55  | Waste classification and segregation requirements specified at §61.55<br><br>Commission agrees that there is value in considering whether to incorporate flexibility for disposal facilities to establish site-specific waste acceptance criteria based on the results of the site's performance assessment and intruder assessment |