Position Description (PD) Template for Yucca Mountain Lead Lab Activities

Position Description Number	YM113
Creation Date of PD	02/01/07
Job Title	**Software Management Technical Staff**
SNL Dept Name	Technical Support
SNL Org Number (or TBD)	
Number of Openings	
Description of Position	The Technical Support Software Management Technical Staff shall be a team of Software Engineers, Independent Verification and Validation (IV&V) Engineers and Software Technical Specialists. These positions shall require the staff members to provide the software management, IV&V and software technical support for the defined software items in support of the Lead Laboratory (LL). The scope of the tasks to be performed by the staff shall be: 1. Requirements Definition analysis activities. 2. Design Specification analysis and "build" activities. 3. Programming and coding requirements. 4. User Information design and analysis activities. 5. User Information definition and steps to perform software installation requirements. 6. Software IV&V activities for specified control points. 7. Software documentation verification. 8. Software documentation development in accordance with applicable procedures. 9. Testing Phase requirements. 10. Software Management requirements in accordance with applicable procedures. 11. Software Configuration Management requirements in accordance with applicable procedures.
Required Skills & Experience	The Software Management Technical staff shall require excellent written and oral communication skills; knowledge of technical software vocabularies and terminology common to the assignment. Demonstrated ability to use common office software such as MS-Word, MS-Excel, and MS-Powerpoint; or equivalent. Software code programming skills with FORTRAN and/or equivalent. Good customer service and relations skills. Good working knowledge of the Software Management IEEE standards used in the nuclear environment/culture.
Desired Skills & Experience (if applicable)	Demonstrated ability to work with MS-Access and Oracle.
Required Education (Degrees & Levels)	Five (5) years directly related experience or an equivalent combination of experience and training.
Desired Education (Degrees & Levels - if applicable)	Bachelor degree in related discipline or equivalent experience and training
Full Time Position? (Y/N)	Yes
Job Requires lifting 35+ Pounds (Y/N)	No
Desired Start Date	

Can this position accommodate…		
Part Time Employees? (Y/N)	Telecommuting? (Y/N)	Foreign Nationals? (Y/N)

Please Select All Related WBS Elements for this PD
(required for distributing PDs to contract providers for sourcing)

WBS Elements of 1.5.03		**X**
1.5.03.01	Safety Analyses Integration-Post Closure Safe	X

Position Description (PD) for Yucca Mountain Lead Lab Activities

Position Description #	YM122
Creation Date of PD	002/21/07
Job Title	**SAR Technical/Document Specialist**
SNL Dept Name	License Application Group, Licensing Department
SNL Org Number (or TBD)	06783

Number of Openings	1
Description of Position	The Licensing Department's responsibilities include the preparation of those sections of the License Application (LA) for the Yucca Mountain Repository assigned to the Lead Lab, and the defense of those sections as well as the technical and modeling basis supporting the postclosure safety analysis. The affected LA sections are Site Characterization, Postclosure Safety and Performance Confirmation. In parallel with the preparation of these sections by the Licensing Department's LA Group, the Licensing Department's License Defense Group is performing an assessment of the reliability of the vulnerabilities of the technical products forming the basis for the total system performance assessment to be presented in the Safety Analysis Report (SAR) of the License Application. This position within the Licensing Department will support the LA Group's effort in the preparation of the SAR sections. The ideal candidate will have experience on the Yucca Mountain project, including experience in coordinating document preparation. This individual will be assigned to the LA Group and will work directly for the LA Group manager. The individual will also work closely with the document production group, postclosure SAR Lead Authors and will assist in documentation preparation (SAR sections) from inception to completion of the SAR Sections, to the submittal of sections to the M & O contractor for incorporation into the License Application. Activities also include preparation and submittal of the SAR Section records packages, as required.
Required Skills & Experience	Demonstrated experience (15 or more years) in document coordination and preparation; ability to work as part of a diverse team of technical and support staff; good verbal and written communication skills; experience in review & document coordination as well as records tracking, and the logistics associated with the production of complex and lengthy technical documents prepared by a multidisciplinary group of technical experts.
Desired Skills & Experience (if applicable)	Knowledge of and experience with the Yucca Mountain Project, and the preparation of previous SAR draft materials.
Required Education (Degrees & Levels)	
Desired Education (Degrees & Levels - if applicable)	Bachelors degree or equivalent relevant experience.
Full Time Position? (Y/N)	Yes
Job Requires lifting 35+ Pounds (Y/N)	No
Desired Start Date	03/09/07

Can this position accommodate…		
Part Time Employees? (Y/N)	Telecommuting? (Y/N)	Foreign Nationals? (Y/N)
N	N	N

Please Select All Related WBS Elements for this PD
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WBS Elements of 1.5.02		
1.5.02.02	License Application	X

Position Description (PD) for Yucca Mountain Lead Lab Activities

Position Description Number	YM125
Creation Date of PD	07/02/06
Job Title	**License Defense Software & Technical Analysis**
SNL Dept Name	Licensing Department
SNL Org Number (or TBD)	06783
Number of Openings	1

Description of Position	The Data Qualification and Verification Team (DQ) is part of the License Defense Group within the Lead Laboratory's Licensing Department. This team member will support the DQ Team with database development for tracking qualification and verification activities and in data qualification and software qualification activities in support of license defense prior and after the submittal of the License Application (LA). The data qualification activities include but are not necessarily limited to (1) ensuring that all data supporting the LA are qualified and traceable to their original source, (2) performing reviews of technical products providing direct feeds to the Total System Performance Assessment (TSPA) Model to ensure that data are being used appropriately, and (3) participating in data vulnerability assessments and developing appropriate mitigation plans for identified data vulnerabilities.
Required Skills & Experience	The selected candidate must possess and have demonstrated experience with the following: (1) software engineering; (2) strong systems analysis and design and software development skills and experience; (3) experience with several of the following is essential: Fortran and C++ programming languages and SQL for MS Access, MS SQLServer or Oracle; (4) ability to work independently and as part of a team and meet tight deadlines in a fast paced environment; (5) proven ability to be self-motivated and proactive in solving problems and effectively negotiating solutions; (7) excellent written and oral communications skills; and (8) ability to solve problems, prioritize work, and make decisions with minimal supervision.
Desired Skills & Experience (if applicable)	A Masters degree in CS, MIS, or similar field. Extensive experience may substitute for the advanced degree. Familiarity with the Software and Information Life Cycle processes. Experience with web database applications.
Required Education (Degrees & Levels)	
Desired Education (Degrees & Levels - if applicable)	
Full Time Position? (Y/N)	
Job Requires lifting 35+ Pounds (Y/N)	
Desired Start Date	10/1/06

Can this position accommodate…		
Part Time Employees? (Y/N)	Telecommuting? (Y/N)	Foreign Nationals? (Y/N)

Please Select All Related WBS Elements for this PD
(required for distributing PDs to contract providers for sourcing)

WBS Elements of 1.5.02		
1.5.02.02	License Application	X