Strategic Workforce Planning Skills and Knowledge Survey

Skill Sets / Candidate	consultant (c) or employee (e)	total professional experience (yrs)	approximate % time available for NRC	1. Materials (yrs) See SRP Chapters 3 & 4							2. Structural/Civil Engineering (yrs) See SRP Chapters 2 &3				3. Geotechnical (yrs) See SRP Chapter 2			4. Industrial Engineering, Human Factors (yrs) See SRP Chapters 13,18&19)			
				Structural Materials	Industry Codes & Standards	Corrosion & Fatigue	Nuclear Fuel/ fuel development	Nondestructive Evaluation	Thermal Hydraulic Analysis	Welding/Brazing	Failure Analysis	Fracture Mechanics	Structural Analysis	Environmental Protection	Environmental (Hydrology/geology)	Seismic Analysis	Meteorology/Atmosphere	Emergency Preparedness & Planning	Control Room Design	Health Physics	Risk Analysis (PRA)

Strategic Workforce Planning Skills and Knowledge Survey

5. Electrical Engineering (yrs) See SRP Chapters 7,8 & 16					6. Reactor Safety Experience (yrs) See SRP Chapters 4,5,6,9,11,12,13,14,15,16 &19				7. Mechanical Engineering (yrs) See SRP Chapters 3,4,5,6,9,10 &11				8. Former Nuclear Regulatory Experience (yrs)								
Vibration Monitoring	Instrumentation & Controls	Plant Instrumentation	Electrical codes/design	Neutron Noise Monitoring	Criticality/Safety	Nuclear Systems Safety	Radiation Protection	Radioactive Waste Management	Dynamic Sys Analysis (LOCA)	Thermal Hydraulics	Vibration Analysis	Fluid dynamics	NPP Licensing	NPP Design Certification	NRC-funded experimental research	Confirmatory Analyses (ITAAC)	NPP License Renewal	Early Site Permits	Project Management	Employment or Assignment at NRC	Commercial Contractor for NRC

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9. Nuclear Industry Experience (yrs)											10. Education			11. Computer Proficiency (None, Fair, Good, Excellent, Outstanding)				
Construction	Licensing	Core design, fuels	Design Engineering	Plant (systems) Engineering	Operations	Maintenance	Nuclear Manufacturing	Hardware/Fabrication Mfg.	Quality Assurance	On-site experience	BS-degree title	MS-degree title	PhD-degree title	MS Project (Gantt Charts)	MS Access	MS Excel	Word Perfect	Code development