

Radium or Uranium Removal System Cost Evaluation

Equipment, Installation and Start-up	WRT	Company A	Company B
Equipment – Complete Radium or Uranium Removal Treatment System including: treatment vessels, connection piping, pre- and post-filtering as required, controls and monitoring, etc.	√		
Produce detailed equipment drawings and specifications	√		
Equipment freight delivered to site	\checkmark		
On-site equipment inspection and testing prior to media installation	\checkmark		
Treatment media	\checkmark		
Treatment media freight delivered to site	√		
Media installation and disinfection	√		
On-site Operator training	1		
Operation and Maintenance Manuals for all equipment provided	1		

Radioactive Materials Licensing and Monitoring

Radiation Safety Awareness Training for Operators	√	
Annual refresher training for Operators	√	
Radioactive Materials License issued for system to operate and maintain for the length of the contract	~	
Renewal of Radioactive Materials License as required	√	
Radiation exposure badges for treatment site	√	
Radiation exposure badge monitoring, data management and archiving for the length of the contract	~	
Maintain central database for system performance, radiation monitoring and health and safety records	~	
On-staff Radiation Safety Officer accessible 24/7	√	

System Maintenance and Warranty

Periodic water analysis to monitor system performance	√	
Periodic media analysis to monitor system performance	√	
System spare parts	√	
Equipment maintenance for the length of the contract	√	
Equipment warranty for the length of the contract	√	
Guaranteed process performance and compliance with the MCL for the length of the contract	√	



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Media Exchange and Replacement	WRT	Company A	Company B
Transfer of radium or uranium ownership from the Utility	\checkmark		
Replacement treatment media	\checkmark		
Replacement treatment media freight delivered to site	√		
On-site labor for media exchange	√		
Equipment required for media exchange	√		
Packaging and labeling of spent treatment media	√		
DOT documentation and permits for transportation	√		
Transportation of spent media to disposal site	√		
Licensed disposal of spent media	√		
Radiation survey of site and documentation after each media exchange	√		
Radiation training for media exchange labor / employees	\checkmark		
Guaranteed pricing that includes media exchange and disposal for the length of the contract	\checkmark		

Decontamination & Disposal of Equipment at End of Contract

On-site labor for treatment media removal	√	
Equipment required for media removal	√	
Packaging and labeling of spent treatment media	\checkmark	
DOT documentation and permits for transportation	√	
Transportation of spent media to disposal site	√	
Licensed disposal of spent media	√	
Radiation survey and decontamination of treatment equipment	√	
Removal of treatment equipment from site	√	
Radiation survey and decontamination of site	√	
Documentation of site closure	√	

Liability and Risk Management

Contractual responsibility for all radioactive aspects of the treatment system for the length of the contract	√	
Contractual responsibility for all radioactive residuals	\checkmark	

 $\sqrt{}$ = Included in WRT pricing