

Table ESP EIS 4.9-3-1
Summary of Scores Related to Radiological Health Impacts

Item No.	Description of Characteristic	Numerical Weighting Factor	Site 4-1			Site 7-1			Site 7-2			Site 7-3			Site 7-4				
			Rating	Product	Reason for Rating	Source of Information	Rating	Product	Reason for Rating	Source of Information	Rating	Product	Reason for Rating	Source of Information	Rating	Product	Reason for Rating	Source of Information	
1a	Proximity to Population Centers	10	4	40	Nearest population center is Easton, PA, 15.6 miles NW of site	Census Bureau GIS data	3	30	Nearest population center is Millville, NJ, 10.5 miles SE of site	Census Bureau GIS data	3	30	Nearest population center is Millville, NJ, 12.7 miles E of site	Census Bureau GIS data	4	40	Nearest population center is Wilmington, DE, 15.6 miles N of site	Census Bureau GIS data	
1b	Low Population Zone Feasibility	8	4	32	Average population density within 3 miles power block area is 132/square mile	Census Bureau GIS data	5	40	Average population density within 3 miles power block area is 75/square mile	Census Bureau GIS data	5	40	Average population density within 3 miles power block area is 22/square mile	Census Bureau GIS data	5	40	Average population density within 3 miles power block area is 2/square mile	Census Bureau GIS data	
1c	Exclusion Area Feasibility	7	1	7	EAB extends into land beyond site property line, and public roads and residences are within the EAB	Aerial Photo and Topographic Map	1	7	EAB extends into land beyond site property line, and public roads and residences are within the EAB	Aerial Photo and Topographic Map	1	7	EAB extends into land beyond site property line, and public roads and residences are within the EAB	Aerial Photo and Topographic Map	2	14	EAB extends into land beyond site property line, but no public roads, railroads, or residences are within the EAB	Aerial Photo and Topographic Map	
1d	Emergency Planning Zone (EPZ) Feasibility	5	4	20	Prevailing wind is from W NW of site (not downwind). Population center is 15.6 miles NW of site (not downwind). Make-up requirement (62,470 gpm) is 13% of 7Q10 flow (483,840 gpm).	Allentown Windrose	3	15	Prevailing wind is from WNW. Population center is 10.5 miles SE of site (downwind). Make-up requirement (62,470 gpm) is 8% of 7Q10 flow (770,560 gpm).	Wilmington Windrose	3	15	Prevailing wind is from W. Population center is 12.7 miles E of site (downwind). Make-up requirement (62,470 gpm) is 8% of 7Q10 flow (770,560 gpm).	Dover Windrose	4	20	Prevailing wind is from WNW. Population center is 15.6 miles N of site (not downwind). Make-up requirement (62,470 gpm) is 8% of 7Q10 flow (770,560 gpm).	Wilmington Windrose	
10b	Adequacy of Cooling Water Source	10	1	10	Wastewater would be discharged to segment of Delaware River classified as Special Protection Waters. Wastewater and makeup water pipelines would pass through groundwater protection area for public drinking water wells.	USGS surface water flow data	2	20	Groundwater protection area for public drinking water wells less than 2 miles from site	NJ water quality regulations, GIS data on protected groundwater resources	2	20	Rail spur would pass through groundwater protection area for public drinking water wells	NJ water quality regulations, GIS data on protected groundwater resources	2	20	No special water quality issues identified	USGS surface water flow data	
10d	Potential to Degrade Water Quality	7	1	7	NJ water quality regulations, GIS data on protected groundwater resources	NJ water quality regulations, GIS data on protected groundwater resources	5	35	No special water quality issues identified	NJ water quality regulations, GIS data on protected groundwater resources	3	21	No special water quality issues identified	NJ water quality regulations, GIS data on protected groundwater resources	5	35	No special water quality issues identified	NJ water quality regulations, GIS data on protected groundwater resources	
			15	116				16	122				17	133				17	169
			Unweighted Rating			Unweighted Rating			Unweighted Rating			Unweighted Rating			Unweighted Rating				
			Weighted Rating			Weighted Rating			Weighted Rating			Weighted Rating			Weighted Rating				