Table 8-2. Summary of Environmental Impacts from Coal-Fired Generation— Once-Through Cooling

	ANO Site		Alternative Greenfield Site	
Impact Category	Impact	Comments	Impact	Comments
Land Use	MODERATE	Approximately 700 ha (1700 acres), (including an additional 217 ha [536 acres] adjacent to existing site)	MODERATE to LARGE	200 ha (500 acres) to 800 ha (2000 acres), including transmission lines
Ecology	MODERATE	Uses undeveloped areas in current ANO site, other nearby land, and rail corridor	MODERATE to LARGE	Impact will depend on ecology of site
Water Use and Quality				
- Surface Water	SMALL	Uses existing intake and discharge structures	SMALL to MODERATE	Impact will depend on volume and other characteristics of receiving water
- Groundwater	SMALL	No groundwater is currently used by ANO-1. This practice likely would continue	SMALL to LARGE	Impact will depend on site characteristics and availability of groundwater
Air Quality	MODERATE	SO _x - 1820 MT*/yr - allowances required NO _x - 850 MT/yr - allowances required Particulate - 120 MT/yr (filterable) - 30 MT/yr (unfilterable) Carbon monoxide - 580 MT/yr Trace amounts of mercury, arsenic, chromium, beryllium and selenium	MODERATE	Same impacts as ANO site, although pollution control standards may vary
Waste	MODERATE	Total waste volume would be estimated around 800,000 MT/yr of ash and scrubber sludge	MODERATE	Same impacts as ANO site; waste disposal constraints may vary
Human Health	SMALL	Impacts considered minor	SMALL	Same impact as ANO site
Socioeconomics	MODERATE	1200 to 2500 additional workers during peak period of the 5-year construction period, followed by reduction from current ANO workforce of 573 to less than 200	MODERATE TO LARGE	Construction impacts would be relocated. Community near ANO would still experience reduction from 573 persons to a minimal maintenance size
Aesthetics	MODERATE to LARGE	Visual impact of large industrial facility and stacks would be significant	MODERATE to LARGE	Alternate locations could reduce aesthetic impact if siting is in an industrial area
Historic and Archaeological Resources	SMALL	Affects previously developed parts of current ANO site, nearby land, and 13 to 16 km (8 to 10 mi) rail corridor	SMALL	Alternate location would necessitate cultural resource studies

Alternatives

Table 8-2. (contd.)

	ANO Site		Alternative Greenfield Site	
Impact Category	Impact	Comments	Impact	Comments
Environmental	MODERATE	Impacts on low income and minority	SMALL to	Impacts will vary depending on
Justice		communities should be similar to those experienced by the population as a whole. Some impacts on	LARGE	population distribution and make up
*Metric tons		housing are likely.		