

Criterion 5B(6) of Appendix A to 10 CFR Part 40 specifically provides 19 factors that NRC must consider in making the present and potential hazard finding necessary to support approval of ACLs for a site. The table lists the 19 factors and where the information addressing that factor is located in the draft ACL Application.

Factor from 10 CFR Part 40 Appendix A	SFC ACL Application Section
1. A description of the physical and chemical characteristics of the waste at the site, including the potential for its migration	1.2.4.1 Mill Operations 1.3 Extent of Groundwater Contamination 1.3.2.6.4 Geochemical Behavior and Attenuation of Constituents Section 2.1 Source and Contamination Characterization 3.1 Transporeft and Pathway Assessment 3.3 Transport Model Calibration Results Appendix 2.2-A Identification of Constituents Appendix 3.1-A Model Calibration Report Appendix 4.2-B Predictive Modeling Report
2. A description of the hydrogeological characteristics of the facility and surrounding area	Section 1.2.2.6 Geology Section 1.2.2.7 Hydrology Included by reference: HMC, 1981; HMC, 1996. (see Appendix 1.2-C, which include electronic files of referenced materials)
3. A description of the quantity of groundwater and direction of flow	Section 1.2.2.7 Hydrology Section 3.1.1 Model Development
4. Identification of the proximity to and withdrawal rates of groundwater users	1.2.2.9 Water Quality and Water Use Appendix 4.4-A Future Water Use Demand Basis of Estimate
5. A description of the current and future uses of groundwater in the area	1.2.2.9 Water Quality and Water Use Appendix 4.4-A Future Water Use Demand Basis of Estimate

Factor from 10 CFR Part 40 Appendix A	SFC ACL Application Section
6. A description of the existing groundwater quality, including the identification of other sources of contamination and the cumulative impacts on groundwater quality	Section 1.2.2.9 Water Quality and Water Use
7. A description of the potential health risks caused by human exposure to the waste constituents (<i>in groundwater</i>)	3.5 Human Exposure Potential from Constituents at Modeled Concentration
8. A description of potential damage to wildlife, crops, vegetation, and physical structures from exposure to the waste constituents (<i>in groundwater</i>)	3.6 Environmental Exposure Potential
9. A description of the persistence and permanence of the potential adverse effects (<i>in groundwater</i>)	3.1 Transport and Pathway Assessment 3.3 Transport Model Calibration Results 4.3 Analysis And Comparison Of Corrective Action Alternatives
10. A description of the volume and physical and chemical characteristics of the waste at the site	2.1 Source and Contamination Characterization
11. A description of the hydrogeological characteristics of the facility and surrounding land	Section 1.2.2.6 Geology Section 1.2.2.7 Hydrology
12. A description of the quantity and quality of groundwater, and the direction of flow	Section 1.2.2.7 Hydrology
13. A description of the rainfall patterns for the area	1.2.2.3 Meteorology, Climatology and Air Quality

Factor from 10 CFR Part 40 Appendix A	SFC ACL Application Section
14. Identification of the proximity of the licensed site to surface waters	No connected surface water. 1.2.2.7.4 Local Surface Water Hydrology 1.2.2.9.1 Surface Water Use
15. A description of the current and future uses of surface waters in the area and any water quality standards established for those surface waters	No connected surface water. 1.2.2.7.4 Local Surface Water Hydrology 1.2.2.9.1 Surface Water Use
16. A description of the existing quality of the surface water, including other sources of contamination and the cumulative impacts on surface water quality	No connected surface water. 1.2.2.7.4 Local Surface Water Hydrology 1.2.2.9.1 Surface Water Use
17. A description of the potential health risks caused by human exposure to the waste constituents (<i>in surface water</i>)	No connected surface water.
18. A description of potential damage to wildlife, crops, vegetation, and physical structures from exposure to the waste constituents (<i>in surface water</i>)	3.6 Environmental Exposure Potential
19. A description of the persistence and permanence of the potential adverse effects (<i>in surface water</i>)	No connected surface water.