

Construction and operations effects on groundwater resources would be the same as described for the South Alternative in Section 5.3.5.2.2.

5.3.5.4 Cumulative Effects

This is a new Section 5.3.5.4.4. Section heading numbers of the remaining sections in Section 5.3.5.4 are increased accordingly.

5.3.5.4.4 South Variant Alternative.

The South Variant Alternative would have the same cumulative effects as the South Alternative described in Section 5.3.5.4.1.

5.3.5.5 Unavoidable Adverse Effects

This is a new Section 5.3.5.5.4. Section heading numbers of the remaining sections in Section 5.3.5.5 are increased accordingly.

5.3.5.5.4 South Variant Alternative.

The South Variant Alternative would have the same unavoidable adverse effects on groundwater resources as the South Alternative described in Section 5.3.5.5.1.

5.3.6 Aquatic Resources

5.3.6.1 Affected Environment

5.3.6.1.6 Aquatic Resources in Perennial Drainages.

5.3.6.1.6.3 Kanab Creek Drainage.

Pg. 5-252, 5th paragraph

The penstock crossing alternatives of Kanab Creek and its associated drainages (Jacob Canyon, Bitter Seeps Wash) is the next westerly drainage along the proposed LPP Project alignment where a possible aquatic resource effect could occur. The Existing Highway Alternative crossing site (Figure 5-102) is east of the Kaibab-Paiute Indian Reservation near Fredonia. The South Alternative, Southeast Corner Alternative, and South Variant Alternative crossing site is approximately 0.5 mile south of the Reservation southern boundary (Figure 5-103).

Pg. 5-253, Revised Figure Caption

Figure 5-103

South Alternative, Southeast Corner and South Variant Alternatives Penstock Crossing of Kanab Creek

5.3.6.2 Environmental Effects

This is a new Section 5.3.6.2.5. Section heading numbers of the remaining sections in Section 5.3.6.2 are increased accordingly.

5.3.6.2.5 South Variant Alternative.

The aquatic resource effects of the South Variant Alternative would be the same as described for the South Alternative in Section 5.2.6.2.2.

5.3.6.4 Cumulative Effects

This is a new Section 5.3.6.4.4. Section heading numbers of the remaining sections in Section 5.3.6.4 are increased accordingly.

5.3.6.4.4 South Variant Alternative.

The South Variant Alternative would have the same cumulative effects as the South Alternative described in Section 5.3.6.4.1.

5.3.6.5 Unavoidable Adverse Effects

This is a new Section 5.3.6.5.4. Section heading numbers of the remaining sections in Section 5.3.6.5 are increased accordingly.

5.3.6.5.4 South Variant Alternative.

The South Variant Alternative would have the same unavoidable adverse effects as the South Alternative described in Section 5.3.6.5.1.

5.3.7 Special Status Aquatic Species

5.3.7.2 Environmental Effects

This is a new Section 5.3.7.2.6. Section heading numbers of the remaining sections in Section 5.3.7.2 are increased accordingly.

5.3.7.2.6 South Variant Alternative Effects.

The South Variant Alternative would have the same effects on listed Virgin River aquatic species and sensitive aquatic species as described for the South Alternative in Section 5.3.7.2.3.

Pg. 5-285, 6th paragraph

revised section caption **5.3.7.2.7 No Action Alternative Effects**

revised section caption **5.3.7.3 Protection, Mitigation and Enhancement Measures**

5.3.7.3 Protection, Mitigation and Enhancement Measures

This is a new Section 5.3.7.3.4. Section heading numbers of the remaining sections in Section 5.3.7.3 are increased accordingly.

5.3.7.3.4 South Variant Alternative.

The South Variant Alternative construction and operation would have no measurable effect on listed aquatic species or their designated critical habitat in the Colorado River, Paria River and Virgin River. No conservation measures for protection of these species and designated critical

habitat have been identified. The South Variant construction and operation would have no measurable effects on sensitive aquatic species or their crucial habitat. No protection, mitigation or enhancement measures for protection of these species or crucial habitat have been identified.

5.3.7.4 Cumulative Effects

This is a new Section 5.3.7.4.4. Section heading numbers of the remaining sections in Section 5.3.7.4 are increased accordingly.

5.3.7.4.4 South Variant Alternative.

The South Variant Alternative construction and operation would have no measurable effects on special status aquatic species or their habitats, therefore there would be no measurable cumulative effects on special status aquatic species or their habitats.

5.3.7.5 Unavoidable Adverse Effects

This is a new Section 5.3.7.5.4. Section heading numbers of the remaining sections in Section 5.3.7.5 are increased accordingly.

5.3.7.5.4 South Variant Alternative.

The South Variant Alternative would not have any measurable unavoidable adverse construction or operation effects on special status aquatic species or their habitats.

5.3.8 Vegetation Resources

5.3.8.2 Environmental Effects

5.3.8.2.1 South Alternative

Pg. 5-319, 3rd paragraph

The South Alternative (Intake System, Water Conveyance System, Hydro System, KCWCD System, and Transmission System) construction would directly affect vegetation communities covering 4,800 acres in the ROW. Temporary and permanent effects on vegetation communities in both the Colorado Plateau and Mojave Desert regions are quantified in Table 5-79. The South Alternative would directly affect a total of 4,171 acres in the Colorado Plateau Ecological Region; however, only 12 percent of the disturbance would be permanent. The South Alternative construction would directly affect vegetation communities covering 630 acres in the Mojave Desert Ecological Region, 46 percent of which would be permanent disturbance.