

2.5.6 Embankments and Dams 2.5.6-1
 2.5.6.1 Review of Existing Embankments and Dams 2.5.6-1
 2.5.6.2 New Embankments and Dams 2.5.6-1

Page intentionally left blank.

2.5.6 Embankments and Dams

2.5.6.1 Review of Existing Embankments and Dams

There are no earth, rock or earth and rock fill embankments required for plant flood protection or for impounding cooling water required for the operation of the plant.

Figure 1-4 shows the locations of three existing non-safety-related impoundments at the VEGP site. They are:

- Mallard Pond located to the north of the proposed switchyard
- Debris Basin Dam #1 located to the southeast of the proposed AP1000 cooling towers
- Debris Basin Dam #2 located to the southwest of the proposed AP1000 cooling towers

These impoundments are not used for plant flood protection or for impounding cooling water required for the operation of the plant. However, brief descriptions of these impoundments are provided here.

The proposed finished grade elevation for the new AP1000 units is approximately 220 ft msl. The pool level in Mallard Pond is below El. 125 ft msl. In the event of a dam breach at Mallard Pond, the water would drain to the north and away from the proposed new units. The pool levels in Debris Basin Dams #1 and #2 are below El. 150 ft msl, and in the event of a dam breach, the water would drain to the south and away from the proposed new units.

2.5.6.2 New Embankments and Dams

No new embankments or dams would be constructed at the site for flood protection or for impounding cooling water required to operate the new AP1000 units. The proposed finished grade elevation for the new AP1000 units is approximately 220 ft msl. This site finished grade elevation is much higher than the probable maximum flood (PMF) elevation discussed in Section 2.4.3 and the dam break level discussed in Section 2.4.4. Therefore, no new embankments or dams would be required to be constructed at the site for flood protection. Also, the new AP1000 units use cooling towers, and makeup water would be pumped from the Savannah River. Therefore, no new embankments or dams would be required to be constructed at the site for impounding cooling water required to operate the new AP1000 units.

In summary, no embankments and dams are required to be addressed in this section.

Page intentionally left blank.