Measures and Controls to Limit Adverse Environmental Impacts During Construction and Operation

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Measure / Control	Construction / Operation
Compliance with applicable Federal, State, and local laws, ordinances, and regulations intended to prevent or minimize adverse environmental impacts (for example, solid waste management, erosion and sediment control, air emissions, noise control, storm water management, spill response and cleanup, and hazardous material management)	Construction
Compliance with applicable requirements of existing permits and licenses (for example, NPDES permit and operating license) for the existing unit and other permits or licenses required for construction of the new units	Construction
Minimizing land cover impact by careful construction techniques and reclaiming land disturbed by construction to the maximum extent possible	Construction
Using standard noise protection and abatement procedures during construction. Providing hearing protection to onsite personnel if needed. Moving excessively loud activities to daytime hours if necessary	Construction
Surveying areas prior to disturbance for archaeological resources, followed by data recovery, if necessary	Construction
Stabilizing embayment banks with riprap or other appropriate means during and following construction, and following requirements of ACE	Construction
Implementing site-specific storm water pollution prevention plans; maintaining vegetative cover on land not in active construction; routing runoff to existing sedimentation basins, and monitoring discharges in accordance with NPDES and State water-quality standards and requirements	Construction
Using tieback walls or similar control technology to limit effects of dewatering in accordance with applicable MDEQ regulations	Construction
Preventing contaminants from entering the aquatic system through use of a Spill Prevention Control and Countermeasure Plan	Construction

Measure / Control	Construction / Operation
Segregating excavated topsoil for replacement in pipeline trench to allow wetland characteristics to be estored; confining construction to low-water periods to minimize disturbance of wetland soils; using bw-weight construction equipment or operating from protective surfaces; and reseeding following construction	Construction
Nodifying construction activities as necessary to avoid nesting or similar critical life history periods	Construction
voiding removal of isolated mixed hardwood-loblolly pine stand north of the switchyard	Construction
voiding areas where square-stemmed monkeyflower (Mimulus ringens) occurs, if documented prior to onstruction	Construction of the
Conducting surveys for species of special concern prior to construction activities	Construction
Controlling air emissions, if necessary, to meet requirements of applicable air regulations and onsite permits. Open burning would be done in burn pits in compliance with MDEQ regulations	Construction
Controlling dust by water spray, reseeding, and mulching, as necessary; equipping concrete batch plant vith dust suppression equipment	Construction
mplementing flexible construction shifts and Unit 1 operation shifts to minimize impact on local traffic	Construction
Compliance with the applicable Federal, State, and local laws, ordinances, and regulations that prevent or ninimize adverse environmental impact (for example, solid waste management, erosion and sediment ontrol, air emission control, noise control, storm water management, spill response and cleanup, nazardous material management)	Operation
Compliance with applicable requirements of permits and licenses required for operation (for example, IPDES permit and operating license)	Operation
ncorporating drift eliminators into design of cooling towers to minimize potential for salt deposition	Operation
Agintaining natural drainage patterns as much as practicable	Operation

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Measure / Control	Construction / Operation
Maintaining sedimentation basins to minimize sedimentation to Hamilton Lake	Operation
Disposing dredge spoils as required by ACE and MDEQ	Operation
Designing intake pipes/screens to minimize potential for impingement and entrainment	Operation
Maintaining/restoring bank stabilization following any construction on the river shore	Operation
Using proven industrial hygiene principles to reduce worker exposure to microorganisms	Operation
Treating effluents containing biocides or other chemicals prior to discharge, in compliance with NPDES permit requirements. Onsite sanitary waste treatment would include tertiary treatment. SERI would also develop and implement a Storm Water Pollution Prevention Plan to manage runoff	Operation
Collecting and storing chemical wastes and waste petroleum products; disposing or recycling offsite at licensed facilities	Operation
Developing and implementing ALARA requirements to mitigate occupational exposures to radioactive and mixed wastes	Operation
Instituting flexible work hours and additional road improvements, such as traffic lights or turn lanes, as needed to mitigate effects on local traffic	Operation
Increasing revenue to Claiborne County and the town of Port Gibson to support emergency services	Operation

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