

## 1.0 Schedule – Plan and Basis

### 1.1 Introduction

This document provides notes regarding the “Level 1 Schedule” for the LG&E/KU, E.W. Brown Units 1 through 3 Air Quality Control Study Project. The Level 1 schedule illustrates the times required to obtain permits; to prepare the EPC (engineer, procure and construct) contract; and for the EPC contractor to engineer, procure, and construct the equipment for each unit. The scope included for each unit is as follows:

- Unit 1 – New SCR, new PJFF, new FD fan, PAC injection, sorbent injection, new air heater, new fly ash handling, and neural network.
- Unit 2 – New SCR, new PJFF, new FD fan, new ID fan, PAC injection, sorbent injection, new fly ash handling, and neural network.
- Unit 3 – New PJFF, PAC injection, sorbent injection, new fly ash handling, and neural network. (Sorbent injection is currently being installed under a separate contract and is assumed to be already in place at time of Phase II work.)

### 1.2 In Service Date

The schedule is based on the assumption that new regulations would require the environmental equipment for all three units to be in service by the end of 2017. However, to the extent that the schedules for the regulatory requirements change, the schedule for placing the AQC equipment in service would change accordingly.

### 1.3 Schedule Assumptions & Comments

- The schedule has been based on the E.W. Brown Air Quality Control Project being performed under a lump sum EPC (engineering, procurement, construction) method.
- The project schedule has been developed based on Black & Veatch’s historical schedule data and adjusted for known site and market conditions.
- Units 1 & 2 will be built in parallel with each other due to the common (stacked) ductwork support structure on the north side of the boiler building and limited crane access in congested areas.
- Unit 3 AQC additions can be built independent of Units 1 and 2 construction. For the purposes of keeping a more level construction work force, the Unit 3 work is shown starting ahead of Units 1 and 2.

- The schedule reflects unit outage period dates provided by LG&E/KU. Two unit outage periods were extended to support the needed time for tie-in work. The Unit 3 spring 2015 outage was extended from 1 week to 8 weeks. The Unit 1 spring 2016 outage was extended from 3 weeks to 6 weeks.
- It is assumed that no major asbestos or lead paint remediation will be required.