

KINGSTON FOSSIL PLANT
COAL YARD RAINFALL RUNOFF STUDY
MECHANICAL AUXILIARIES
PHASE 2 SCOPE

Revised

The coal yard sump overflows during heavy rains. This project is to replace the existing pumps and piping with a larger capacity more reliable system. The mechanical scope consists of the following:

- o Provide a new sump and duplex pumping unit complete with control panel. Each pump is rated at 1500 gpm @ 65 feet head. Pump material is ~~CD4MCu due to the low pH (pH=2.4)~~ ^{STAINLESS STEEL}. Sump tank and sump suction piping to be manufactured from acid resistant polyethylene.
- o Provide the level control system complete with a beacon strobe light at the high level alarm. Alarm will only be local.
- o Provide a ^{SINGLE} ~~separate~~ discharge pipe line. ~~for each pump~~. Pipe material to be polyeythene. The discharge piping will terminate at the ash pond drainage ditch.
- o Prepare specifications for procurement: 1 each for the pumps, sump tank and sump suction piping. Includes contract administration. ^{THE SUMP TANK AND SUMP SUCTION PIPING SPECIFICATIONS WOULD BE 2-3 PAGES (MAX) AND NO CONTRA}
- o Prepare pump head calculations based on a land survey to be conducted during phase 2.
- o Prepare ^{ONE} ~~two~~ new CAD drawings ~~and a bill of material~~.

ASSUMPTIONS:

- o No DETAIL ROUTING DWG will BE PROVIDED.
ROUTING will BE BY FIELD.

ENGINEERING COST INPUT SHEET

PROJECT: KINGSTON FOSSIL PLANT

FISCAL YEAR: 1994
PHASE 2

FEATURE: COAL YARD RAINFALL RUNOFF STUDY

CER: KIF93-1218-P0

PCN:

PREPARED BY: D. E. BOHL

ENGG SVCS GROUP:

select one

- FOSSIL ENGINEERING
- HYDRO ENGINEERING SERVICES
- PROJECT ENGINEERING SERVICES
- CLEAN AIR PROGRAM
- OTHER ORGANIZATION: _____

Est'g, Proj Ctrls, etc.

MAN-HOURS

PDE MANHOURS

Section Name	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Mechanical Auxiliaries										.150	200	150	500
													Total 500

OCT NOV DEC
 SEP OCT NOV
 60 60 60

TRAVEL : NO. OF PERSON TRIPS

Section Name	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Mechanical Auxiliaries										1		1	2

OTHER DOLLARS (A/E Engineering Work, Est'd M-H's, Quote, Other Basis)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
													0
													0
	0	0	0	0	0	0	0	0	0	0	0	0	0

NOTES: 1. PHASE 3 IS ASSUMED TO BE IN FISCAL '95. PHASE 3 MANHOURS = 40

PHASE 2 PUMP SPEC 40
 CONTR. ADMIN 20
 TANK & PIPE SPEC 16
 DESIGN 104
180

PLANT TRIP ... 8
 CALC. 12
 LAYOUT 16
 DRAFTING 64
 CHECKING 4

Revised

PHASE 3 16

ANTICIPATE NO AS CONSTRUCTED DWGS.

Approved by: _____

Date: _____