

- -Scheduled date
- -When do you start to prepare for scope (12 to 18 months)
- -How well do you know your machines:
  - a- Operations history
  - b- Mechanical history
  - c- Parts life
  - d- Parts upgrades from original installation.
- -Expectations after start up:
  - a- HP output (MW) @ XX ambient F
  - b- Emissions
  - c- Vibrations
  - d- oil leaks before and after

T/C's and Guaranties



- -Scope preparation
- -Who is the lead person: team
- -Mech scope, Instrument, electrical, Operations and inspection
- -Gas turbine, generator, Waste heat boiler
- -Mech inventory of spare parts:
  - a- Verify that parts are repaired (report)
  - b- Identify major parts needed (New, need repairs)
  - c- Get quotes for new / availability
  - d- Must be on hand before outage starts.
- Instrument and Electrical:
  - a- same as above

Planner scheduler - who is keeping track of parts ordered



- -Scope preparation
- -Team:
- a- details of scope and reviews
- b- approve scope
- c- Agree on who the bidders
- d- Mech only?
- e- Mech, Instrument and Electrical
- What is acceptable outage time:
- -What are rates \$/hr for the different disciplines
- -What is the work schedule 7 x 12, days,/? And nights
- -Ask the bidder to submit a schedule time table for outage



- -Schedule 1 day with all bidders:
- -Set expectations
- -Review scope
- -Field walk through
- -Date you want bid back (4 weeks)
- -Questions back:
- -How are they communicated with team and all bidders



- -Bid evaluation
- -Hits: minimize outage time
- -Exchange rotor
- -Miss: Internal alignment our machine base \$ vs unknowns optical, laser- shroud blocks \$1, 2 and 3 must be in
- -Hi speed balance of generator rotor
- Generator field Rewind shop work, where to send?
- -GE drawings?143D7377 CL of #2 Bearing bore to be located horizontally in line with and vertically .018 to -.022 above machine Axis
- -GE drawing 151D8742 note #17 No2 bearing to be positioned vertically so that the 1st stage buckets are centered vertically with the machine axis with in +.004/-.000 taking in account any out of roundness



- Items that need attention:
- Stop Ratio Valve
- Torque Converter-Parts and delivery 365 days
- Starting Diesel
- Turbo Charger Hydraulic hoses new SS braiding
- Old Flame scanners water wash
- Mark 5 or 6 TUV SIL 3 certificate?