

PLANT: POWER 1PROJECT TITLE: STEAM TURBINE # 3 NEW GOVERNOR & 235# ADMISSION ADDITIONDATE: 9/18/ 90

1. Has the Technology Center approved the process? YES. A SUPPORT LETTER WAS WRITTEN BY THE TECH. CENTER TO SUPPORT THIS PROJECT
2. Has any reactive chemical data been generated? N/A
3. Has a reactive chemical review been done since the design was finalized? NO Attach the review letter along with a written answer to any questions that were raised during the review. Has reactive chemical checklist been completed? N/A
4. Has Environmental Control reviewed and approved the project?
YES
5. When the construction project is essentially complete, a job safety inspection should be made. This inspection should include:

JOE RAWLINGS-----	Plant Supervisors	Plant Operators -JOE RAWLINGS
JIM LANDRY -----	Plant Engineer/Mfg. Rep.	Safety Department- GERVEY SMITH
GEORGE NASSER	Their inspection should emphasize:	
BILLY STEARS	Piping and associated supports	
	Valve location and orientation	
	Structures and ladders	
	Electrical grounding	
	Insulation for personnel protection	
	Safety showers	
	Fire extinguishers and deluge guns	
	Intercom locations	
	Lighting	
	Line labeling	

Has such a review been made? TO BE DONE BEFORE START UP.THE INSPECTORS HAVE BEEN IDENTIFIED.

6. Operator training classes should be held. These classes should highlight the following:

- | | | |
|------|---|---------------------------------|
| X A. | Project benefits and expected results. | |
| X B. | Process description (include expected operating conditions) | |
| X C. | Process controls | |
| X D. | Operator responsibilities | |
| X E. | New procedures: | |
| | X1. Start up | 5. Job Procedures |
| | 2. Emergency | X6. Normal Operating Procedures |
| | X3. Shutdown | 7. Red Tag |
| | 4. Sampling | X8. Loading/Unloading |
| F. | Lab Procedures | |
| | Has such training been done? | <u>YES</u> |

7. Procedures should be reviewed by as many plant people as possible and revised as necessary. A plant committee of operations and technical people should make a final safety audit of procedures. Has such a safety audit been done? THE PLANT OPERATORS WROTE THE PROCEDURES, WHICH WERE REVIEWED BY TWO ENG. THE PROCEDURES WILL BE REVIEWED AGAIN WITH OPERATORS IN A FOLLOW-UP TRAINING CLASS.
8. Has the system been pressure tested? IT WILL BE BEFORE THE TURBINE STARTS UP
Washed or cleaned? CLEANED How? THE OLD PIPING WAS WIPE CLEAN. THE NEW PIPING WAS SAND BLASTED AND AIR PURGED.
9. Is it possible to have a dry run operation such as operating the system on air, nitrogen, or water? YES If so, has this been done? IT WILL BE DONE WITH STEAM BEFORE STARTUP Are other plants involved in the new process? YES, (ALL PLANTS THAT USE 235# STEAM).
10. Have all instrument loops been checked and documented? YES
Full range valve stroke? YES Fail safe valve positions verified? YES Have critical instruments been identified and registered? YES
11. Has the new electrical equipment been checked out? Are field switches, equipment and MCC starters labeled properly? Refer to S-316 for electrical safety standards.
YES
12. Have the block operating manual and emergency procedures been modified to include the new project? YES
13. Have pressure vessels and PSV's been added to the computer list?
N/A Do PSV's set pressure match design pressures of vessels? N/A
14. Have plant and engineering files and drawings (P&ID's) been updated to include the new equipment? I & E WIRING DIAGRAMS & loops have been updated. P & ID'S HAVE TO BE COMPLETED.
15. Has a list of necessary spare parts been added to the existing spare parts stocking list? YES
16. Have training classes been set up for maintenance of the new equipment: YES
17. Has all associated equipment been checked? CONTROLS ARE CHECKED NEED TO DO FINAL CHECKOUT
- 18. Has a review of the control system been completed? YES
If computer control, has a simulation been done? YES

This check sheet must be filled out and reviewed with the Plant Superintendent prior to the start up of a new project.

9/89

DO A 118132
CONFIDENTIAL

PROJECT AND MODIFICATIONS SAFETY ASSESSMENT

PLANT POWER 1 TITLE STEAM TURBINE # MODIFICATION

Underline those factors which have been changed by the proposal.

PROCESS CONDITIONS

temperature
pressure
flow
level
composition
toxicity
flash point
reaction conditions

OPERATING METHODS

start-up
routine operation
shutdown
going through explosive
range
preparation for maintenance
abnormal operation
emergency operation
layout and positioning of
controls & instruments

ENGINEERING METHODS

trip and alarm testing
maintenance procedures
inspection
portable equipment

SAFETY EQUIPMENT

fire fighting &
detection systems
means of escape
safety equipment for
personnel
showers and eyewashes

ENVIRONMENTAL CONDITIONS

liquid effluent
solid effluent
gaseous effluent
noise
dust
diking

ENGINEERING HARDWARE AND DESIGN

line diagram
wiring diagram
electrical feeders distribution
plant layout
design pressure
design temperature
materials of construction
loads on, or strength of:
foundations
structures
vessels
pipework/supports/bellows
temporary or permanent:
pipework/supports/bellows
valves
slip-plates
restriction plates
filters
instrumentation
trips and alarms
static electricity - grounding
lightning protection
radioactivity
rate of corrosion
rate of erosion
isolation for maintenance
maintenance - electrical
fire protection of cables
handrails
ladders
platforms
walkways
tripping hazards
access for:
operation
maintenance
vehicles
plant
fire fighting
underground overhead:
service
equipmt
safety relief devices