

# Importance of Auditing/Reviewing Your Company's GADS Events

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- To meet the mandatory GADS reporting requirements
- To provide for consistent reporting in your company and throughout the industry
- To provide reliable data to compare your own units and to benchmark against the industry

**This presentation addresses the importance  
of good descriptions and cause code choices**

- How do I know the event type is correct?
- How do I know the cause code is correct?
- How do I know that my benchmarking results are correct if I compare my units to the industry?

**Most events (except RS) need a good description.**

**A good GADS reporter should feel obligated to include the description.**

- Insight to know if the correct event type is selected (planned, maintenance, forced)
- Verification that the cause code is correct

- Familiarity with the GADS cause codes and how they are organized
- Plant experience and high level of plant knowledge
- Ability to use plant historian to review events
- Willingness to challenge what is reported
- Support of your management

# Examples of Poor Reporting

The examples you are about to see are real.  
The names have been removed to protect the guilty.

Original cause code: Air heater fouling (tubular) 1492

Description: Washing air heater

New cause code: Air heater fouling (regenerative) 1493

Comments: Plant does not have tubular air heaters



Original cause code: Transmission line (Powerhouse  
switchyard to 1<sup>st</sup> substation) 3710

Description: Doble and power factor testing of GSU  
transformer

New cause code: Main transformer 3620

Comments: Description describes transformer test

Original cause code: Other combined cycle problems 6299

Description: Gas turbine tripped due to swing in IP drum level

New cause code: Operator Error 9900

Comments: Many errors are reported as equipment problems

Original cause code: Other high pressure turbine problems 4099

Description: Changed out a cracked expansion joint

New cause code: Crossover and under piping 4270

Comments: Joint was on crossover from IP to LP turbine  
Question events listed as “other”

Original cause code: Bearings-HP turbine 4040

Description: Turbine vibration on #11 and #12 bearings

New cause code: Generator vibration 4560

Comments: These bearings are on the generator

Original cause code: Pulverizer inert system 0342

Description: "A" mill out to replace pyrite gate

New cause code: Pulverizer pyrite removal system 0346

Comments: Description says it is a pyrite system problem

Original cause code: Other main steam valves 0520

Description: Reduced load to repack superheat  
automatic spray water valve

New cause code: Desuperheater/attenuator valves  
0590

Comments: Need to be familiar with codes on minor  
equipment

Original cause code: Other generator problems 4899

Description: Black start testing

New cause code: Black start testing 9998

Comments: There is a specific code for the event

Original cause code: Other hydro problems 7299

Description: Replacement of all wicket gate positioners

New cause code: Wicket gate operating mechanism or  
positioner 7141

Comments: A diligent look at the codes would have  
found 7141



Original cause code: Feedwater pump/drive lube oil system 3415

Description: “F” mill off to repair lube oil pump

New cause code: Pulverizer lube oil system 0335

Comments: Both codes say “lube oil”. Oops!

Original cause code: Primary air fan 0260

Description: Changed out 2A PA fan motor due to a bad bearing

New cause code: Primary air fan drives 0263

Comments: Description clearly says motor

Original cause code: First reheater slagging and fouling 1160

Description: Pinhole leak in panel 40 and panel 1

New cause code: First reheater tube leaks 1060

Comments: Both cause codes say “first reheater”

Original cause code: Motors for low pressure pumps  
2621

Description: Added oil to "A" reactor coolant pump  
motor

New cause code: Reactor coolant/recirculating pump  
motor 2210

Comments: Description clearly defines the correct  
code

Original cause code: Coal conveyors and feeders 0030

Description: “B” mill out to clean out conveyor

New cause code: Pulverizer feeders 0250

Comments: Need good knowledge of plant equipment

Original cause code: Pulverizer feeders 0250

Description: "A" mill out to inspect mill ball charge depth

New cause code: Pulverizer mills 0310

Comments: This is obviously not a feeder problem

Original cause code: Loss of vacuum not attributable to a particular component 3149

Description: Condenser vacuum was lost due to loss of seal water on vacuum pump (hole in seal water line)

New cause code: Vacuum pump 3133

Comments: Component issue was clearly known

Original cause code: Windbox expansion joints 0845

Description: Repair oil leak on "B" boiler feedwater  
pump

New cause code: Feedwater pump/drive lube oil system  
3415

Comments: What were they thinking?



Original cause code: Loss of vacuum not attributable to a particular component 3149

Description: A crack developed in the hotwell allowing air in-leakage

New cause code: Hotwell 3123

Comments: Component issue was clearly known

Original cause code: Other air heater fouling (heat pipe) 1495

Description: Air heater magnetic coupling failed

New cause code: Air heater (regenerative) 1488

Comments: This plant does not have heat pipe air heaters and fouling was not the issue

## What can we do to improve?

- Call your reporter when the description and cause code do not match. You may be surprised at what really happened.
- Familiarize your reporters with the codes
- Have plant knowledgeable reporters
- Have experienced reporters. Do not make GADS an after thought for your newest employee.