





एनटीपीसी NTPC

NTPC-Darlipali Welcomes You





















Alarm Management & Optimisation

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Contents.































Introduction..



Control room operators are often faced with an overwhelming number of alarms, courtesy of modern control systems

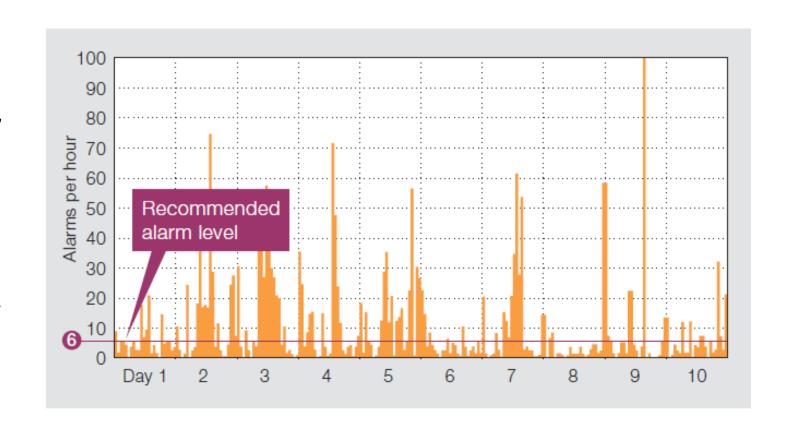




Introduction...



Frequently, the actual number of alarms per hour is far greater than the **EEMUA** recommend alarm rate of 6 per hour





















Indicators of Poor Alarm System Performance



- ➤ Major unit upsets, such as losing a draught group, generate an unmanageable number of alarms.
- ➤ Minor operating upsets, as well as seemingly routine operations, such as putting a mill in service, generate a significant number of alarms.
- ➤ Some active alarms, such as low primary air flow rate on a standby mill, do not require operator attention.
- > Some alarms remain active for significant periods of time.
- ➤ When some alarms activate, such as 22 kilovolt (kV) breaker open, the operator is not sure of what to do about them.
- When nothing is wrong active alarms occur, such as unit at maximum load.
- > Some alarms are not as critical as their priority might suggest









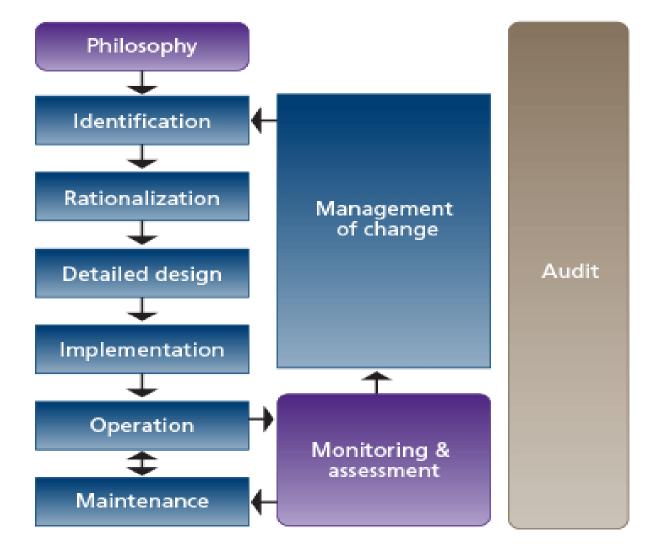






Steps for Addressing Alarm Problems





















Alarm optimisation in Darlipali Unit#2

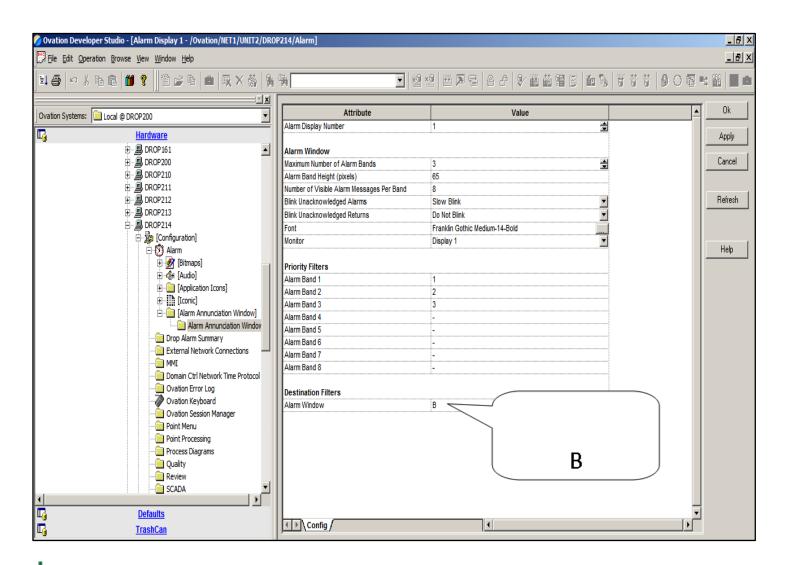


Using the above methodology in unit#2 ovation system alarm management & optimisation has been implemented in ovation DCS successfully. Total 4914 alarms are rationalised in consultation with operation department



Configuration Changes done in LVS workstations















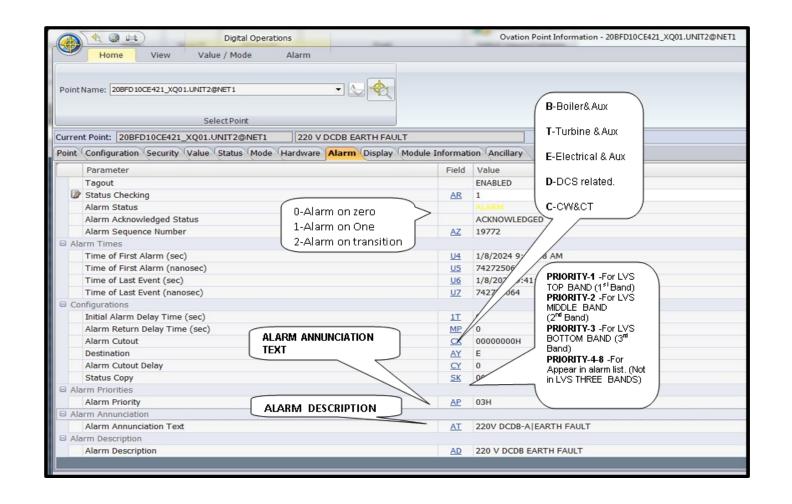






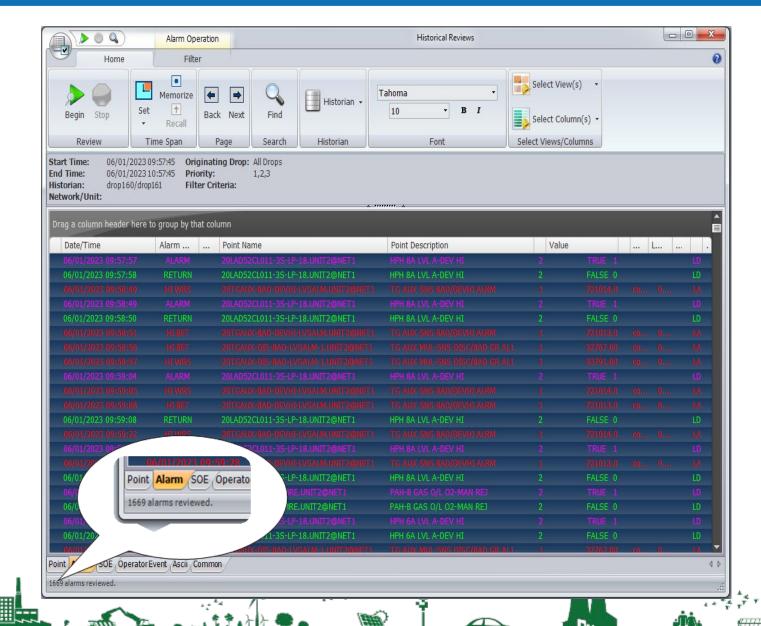
Configuration Changes done in Tag information





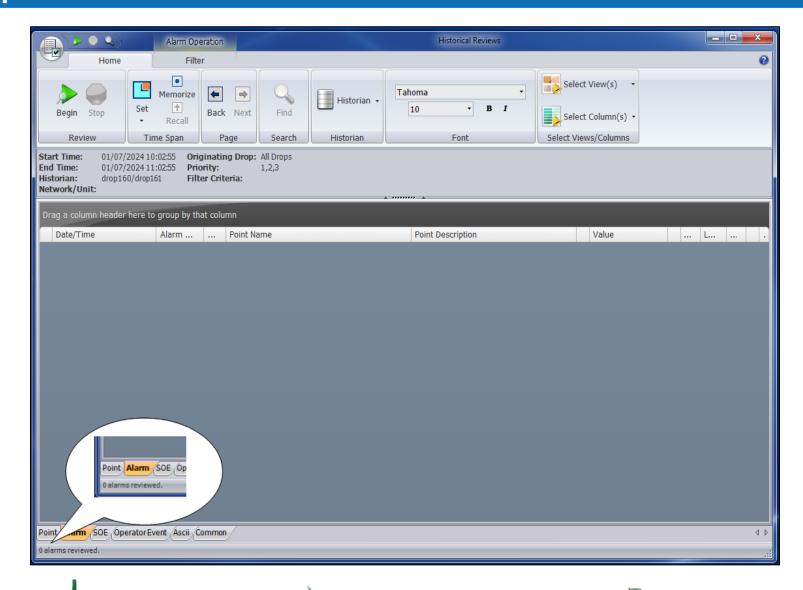
alarms per hour before modification in unit#2





alarms per hour After modification in unit#2





Conclusion..



"PRODUCTIVITY IS NEVER AN ACCIDENT. IT IS ALWAYS THE RESULT OF A COMMITMENT TO EXCELLENCE, INTELLIGENT PLANNING, AND FOCUSED EFFORT." PAUL J. MEYER



































Thank You



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