Peaker Services, Inc.

Location
Moffat Plastics
Elgin, Illinois

Type of Installation
Island Mode On site Power

Power Source
- (6) Caterpillar 3612 Engines
- Buffalo, Flare

Unique Obstacle
Mechanical governor engines with older ignition system and obsolete switchgear

Systems Product Used
Six system including
- Ignition Module (3)
- Ignition Coils (148)
- Knock Module (6)
- Fuel Valve Trim Valve (6)
- Air/Fuel Control (6)
- Knock Sensors (148)
- Wire Harness (6)

Result
Modern powerplant with improved performance

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Extensive Digitization Controls Upgrade Gives Power Plant New Life

Moffat Plastics installed nine CAT 3612 lean natural gas engines in 1994 for onsite power and cogeneration. The power plant had a number of reliability and safety problems including obsolete and outdated switchgear and ignition systems, older mechanical governed engines, brittle wire harnesses, and a knock system that could only detect major events. The goal of the upgrade was to provide facilities with unmanned reliable island mode power that could start in minutes.

Pre-Upgrade

Fig. 1 Engine Gensets

Fig. 2.1 Switchgear

Fig. 2.2 Engine Control Panel

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