GE Mining
Industrea

BULLETIN 33774

SEMS FLOAT TIMER

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Prepared for: Industry

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BULLETIN SEMS Float Timer

This bulletin is in relation to GE Mining Graders fitted with a SEMS Shutdown System.

Summary:
A fault with the SEMS system application on the GE Grader product has been identified.

GE Mining has established that the exhaust scrubber float 1 is connected into a SEMS unit input that contains a *start-up timer* circuit. The start-up timer function is intended for coolant loss or low oil pressure type inputs that require a timed override on start-up.

The connection of scrubber float 1 to the timer circuit renders this float dormant for a period of 15-20 seconds at engine start-up. If an undetected fault was to render float 2 inactive, the affected Grader engine is capable of being started without the automatic water level check afforded by the System. This has the potential of allowing the engine to start and to then run for 15-20 seconds without the water flame trap barrier.

Immediate Action: Heightened Float test regime
GE Mining recommends that the affected machines currently in service be tested for correct float operation prior to use as an immediate measure.

Affected machines:
The Setco SEMS Safety Shutdown System is installed in certain GE Mining Graders as identified below.

Machine	Serial Number	Plant Number
GRADER	31	GR568
GRADER	35	GD035
GRADER	36	GR001
GRADER	37	GD002

Further Action: Urgent Correction of SEMS Float 1 connection

The connection of Float 1 to the SEMS junction box must be changed so that the float is not connected to a *start-up timer* circuit. GE recommends that this change be made without delay. The correction procedure is in development and will be available after design verification and Design Registration amendment issue from the NSW Inspectorate.

Logistics: Please contact GE Mining to make arrangements for this work to be undertaken.

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