

CASE STUDY

Safe-Fire Inc.

www.safe-fire.com

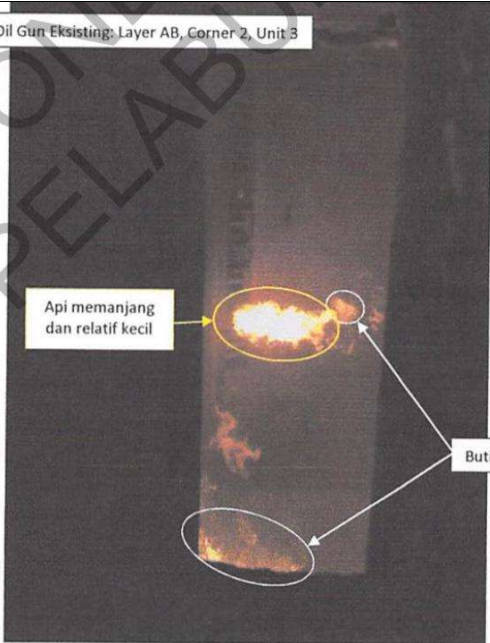
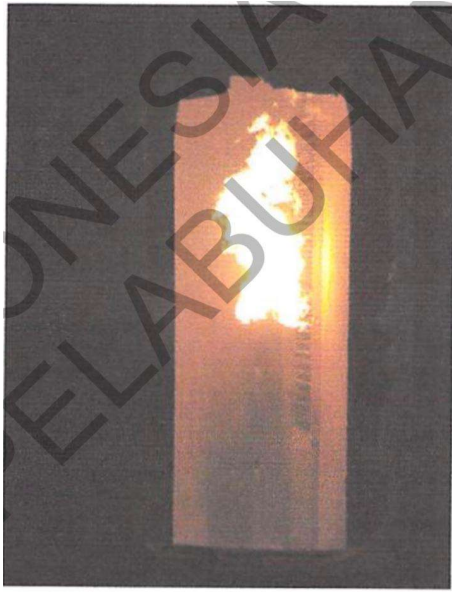
***Safe-Fire MB3 oil gun igniter retrofit at
Pelabuhan Ratu Power Plant***

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The Challenges

The oil gun igniters of Pelabuhan Ratu Unit #3 had experienced various startup issues including failure to start; insert and retract trouble; insufficient atomization with unburnt large sized HSD particles; no spark due to low spark energy; and high fuel consumption due to lengthy startup process. The power plant went through a retrofit to install Safe-Fire MB3 at its CD level on Unit #3 and experienced improved results on its ignition system.

Before	After
<p data-bbox="212 247 521 268">Oil Gun Eksisting: Layer AB, Corner 2, Unit 3</p> 	 <p data-bbox="1003 844 1286 865">Gambar 9 Api dari oil gun Safefire</p>
<ul data-bbox="250 886 789 1138" style="list-style-type: none"> • 10 seconds to start • Fail to start or takes many times to start • Small ignition fire • Poor atomization with unburnt HSD particles • Jamming insert and retract • Difficult to maintain the equipment • Solenoid and control on one panel 	<ul data-bbox="899 886 1474 1138" style="list-style-type: none"> • 2 seconds to start • Easy, no failure to start • Larger widespread ignition fire • Better atomization • Smooth insert and retract • Easy to disassemble for maintenance • Separate solenoid valve improved reliability and functionality

The installation of Safe-Fire oil guns was relatively easy. Since Safe-Fire products are compatible with the logic in the existing DCS system, the retrofit project was simply a replacement of some hardware.