Harris Pye Engineering provides in situ repair, upgrade and conversion of FPSOs, FSOs, FSRUs and FSUs, as well as inspection and consulting services for the LNG industry.

We are already world-renowned for all aspects of boiler and associated steam system design, manufacture, commissioning and installation; inspection and repair. We are also leaders in construction steel works; high and low pressure pipeworks; all aspects of specialist welding; heat treatment; mechanical works including, compressors etc; and accommodation / outfitting design, manufacture and installation.

Over the past twelve years we have expanded our services to include: instrumentation, automation and control engineering; full electrical services; and pipework system design, manufacture and installation using state-of-the-art 360 degree scanning equipment and software. Our approach to project managed in situ turnkey repairs offers very definite advantages to the offshore oil & gas sector.

We have major experience with FPSO and FSO conversions – we were involved in the pioneer projects when FPSOs and FSOs were still experimental in the 1980s:

- We had key inputs to the development of safe use of dual fuel for boilers and the safe & practical application and installation

- We have been involved in more than 45% of the world’s FPSOs ever converted or new built
FPSO / FSO / FSU / FSRU / LNG Services

- Project management
- Turnkey solutions
- Steelwork services, including SPS
- Blasting & painting
- Pipework design, manufacture & installation
- Deck Boilers & Complete boiler systems
- Outfitting/accommodation
- Including HVAC & refrigeration
- Full electrical services
- Mechanical services
- Instrumentation, automation & control
- Boiler design studies, repair, inspections, surveys

AVAILABLE 24/7
Project examples
Harris Pye carried out all major topside works, which included specialist piping and turret system upgrades. Having previously completed similar projects, we were also tasked with additional works such as the installation of a new deepwell pump system and the refurbishment of the turret lower bearings and utility swivel seals.
Vessel: Neva River (ex Celestine River)
Client: “K” Line LNG Shipping
Location: Singapore

Testing Harris Pye’s 360 degree 3D scanner – scan of engine room pre-ballast water system CAD design, selection and installation.
Vessel: FPSO Brasil
Client: SBM Offshore
Location: Brasil & Singapore

2008-2011
• Chemical clean
• SPS Overlay
• Tube supply & manipulation
• Main boiler surveys
• Survey on the renewals of the straight runs
• Straight runs renewals
• Supply gear box spares & new gear box - 2001
• Supply fan bearings - 2001
• Stub renewals - 2001
• Supply flanges & orifice plate - 2001
• Supply 24 pcs F D fan universal joint - 2001
• Auxiliary boiler work - 2001
• Desuperheater coils - 2002
• Furnace & void vents - 2002
• Supply refractory - 2002
• Condenser Expansion Bellow - 2002
• Cyclone repairs - 2002
• Fit Groaso lines To Sliding Fit - 2002
• Supply glass and peephole switch - 2002
• Repair steam valves - 2002
• Supply & install sight glass illumination - 2002
Vessel: FPSO Eagle (now Serpentina)  
Location: Singapore  
- Supply materials - 2002  
- Work on board - boiler retubing - 2002  
- New desuperheater coils steam drum - 2002  
- Supply & install expansion bellows - 2002  
- Supply spares for fan damper actuators - 2002  
- Control desuperheater - 2002  
- Soot blower and air heater controls - 2002  
- Weld in valves - 2002  
- Boiler roof gas vents - 2002  
- Fabrication of FO recirc line & supply 2 SDNR valves - 2002  
- Ventilation ducting - 2002  
- Work platforms - 2002  
- Boiler casing doors - 2002  
- Boiler air/gas trunking smoke test - 2002  
- Overhaul air preheater soot blower gear box – 2002  
- Boiler drum door & holding down bolts & nuts - 2002  
- Grit blasting & painting - 2002  
- Machining gasket faces - 2002  
- Supply air heater and sootblower installation - 2002  
- Free up boiler peephole - 2002  
- Air heater casing drains - 2002  
- Heavy fuel oil modifications - 2003  
- Supply air heater control relays - 2003  
- Nitrogen system - 2003  
- Weld in pipe inserts - 2003

Vessel: FPSO Serpentina  
Location: Equatorial Guinea  
- 2 x Boiler surveys  
- Refractory supply  
- Material supply / boiler works  
- Auxiliary superheater  
- Chemical clean  
- Insert supply sample analysis  
- Fabricate 2 attemperators  
- 4 x Supply of gaskets  
- Retube evaporator  
- Tube sample analysis  
- Supply door gaskets  
- Supply of stock boiler tubes  
- Supply attemperator NT blts  
- Supply chemical cleaning EQ  
- Supply furnace tubes  
- Desuperheater & attemps  
- Desuperheater repairs  
- Supply of valves  
- Retube furnace envelopes  
- Desuperheater flanges  
- 4th pass superheater tubes  
- Supply insulation  
- Supply man door gaskets  
- Steel deck repairs  
- Boiler inspection

Photo courtesy of SBM Offshore

2006-2011:
- 2 x Boiler surveys  
- Refractory supply  
- Material supply / boiler works  
- Auxiliary superheater  
- Chemical clean  
- Insert supply sample analysis  
- Fabricate 2 attemperators  
- 4 x Supply of gaskets  
- Retube evaporator  
- Tube sample analysis  
- Supply door gaskets  
- Supply of stock boiler tubes  
- Supply attemperator NT blts  
- Supply chemical cleaning EQ  
- Supply furnace tubes  
- Desuperheater & attemps  
- Desuperheater repairs  
- Supply of valves  
- Retube furnace envelopes  
- Desuperheater flanges  
- 4th pass superheater tubes  
- Supply insulation  
- Supply man door gaskets  
- Steel deck repairs  
- Boiler inspection
Vessel: FPSO Xikomba
Location: Angola & Singapore

- Norm pipe survey – 2011
- Pressure vessel staging / cleaning - 2011
- Lay up, D H of main engine gear box, condenser - 2011
- Return - boiler aux & main SA - 2011
- Gas leak - 2012
- Supply finn tube - 2012
- Valve repair - 2012
- Boiler inspection - 2012
- Turret swivel norms removal -2012
- Condenser study
- Condenser retube
- Supply sootblower control panel
- Pre survey work
Vessel: FSO Yetagun
Location: Singapore

- Boiler inspection - 2009
- Boiler inspection - 2010
- Boiler inspection - 2011
- Inspection - 2003
- Supply and fit crane pedosial - 2005
- Gaskets – 2005
- Chemical cleaning work - 2005
- Investigate combustion problems - 2005
- Boiler inspection - 2006
- Retube cooler - 2006
- Inspection - 2006
- Supply H/H door bolts - 2011
Vessel: FPSO Yoho
Location: Singapore

- SPS Repair in various areas - 2010

2003:
- Inspection
- Supply material
- Installation work

2004:
- Hamworthy upgrade & refurbishment
- Supply air preheater seals
- Retube desuperheater / attemperator
- Supply air heater bearings
- Hole reaming
- Supply additional parts
- Boiler mountings additional
- Machine and supply new valve spindles
- Upgrade valve packing
- Supply pneumatic cylinders
- Supply replacement generating tubes
- Additional stub renewal
- Dye penetrant testing
- Supply attemperator tube sheet
- Install orifice plates
- Hydrotest
- Machining valve seals & welding boiler mounts
- Supply boiler mounts
- Machine safety valves + drum level
- Soot blower repairs
- Additional work - viewing ports
- Supply globe valves
- Boiler mount works
- Control panel modifications
- Supply elomatic actuators
- Lagging and cladding
- Supply pressure gauge
- Supply cable
- Installation of gas vent pipe
- Machining control valve
- Supply 2" steam valve
- Supply ball valve
- Supply elematic actuator

2005:
- Attemperator weld repair and gauges
- Supply pressure transmitter
- Supply pressure gauge
- Supply flogging spanner
- Supply temperature transmitter
- Supply temperature gauge
- Supply labour and materials
- Supply attemperator
- Supply solenoid valves
- New doors, inspection and repairs

2006:
- Supply condensate pots
Vessel: FPSO Kuito
Location: Angola

2008-2011
- Repairs to boiler
- Supply of refractory
- Light supports
- Boiler works
- Chemical Clean
- Boiler Study & Condenser Survey
- Desuperheater Internals Repairs
- Accommodation and Galley Upgrade Survey

Photo courtesy of SBM Offshore
Vessel: FPSO Cidade de Paraty
Location: Angola

- FPSO conversion boiler work – 2010
- Valve works - 2010
- Conversion piping - 2010
- Refractory boxes - 2010
- Valve extras - 2011
- Supply & install 2 no bellows - 2011
- 8 gauge glass nozzles - 2011
- NR13 inspection - 2011
- NR 13 pressure test - 2011
- Drum door repairs - 2011
- Soot blower head - 2011
Vessel: FPSO Mondo
Location: Singapore & Brasil

- Valves & drain - 2007
- Safety valve repairs - 2007
- Cap instrument outlet - 2007
- GAH casing - 2006
- Supply valves - 2006
- Repairs to superheater pipework - 2007
- Supply and install bellows - 2007
- Repair valves - 2007
- Airfreight of header parts - 2007
- Valve spindle works - 2007
- Handhole works - 2007
- Air intake bellows - 2007
- Desuperheater retubing - 2006
- Header supply + modification - 2006
- FPSO retube + conversion - 2006
- Insert drum level - 2007
- Main stop / renewal and replace - 2006
- Paint pipework – 2006
- 2 x boiler Inspections
- Replica Testing
- Various Gaskets supply
- 2 x Hand hole door repairs
- Supply Hand hole facing M/C
- Tube analysis

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Vessel: FPSO Capixaba
Location: Brasil & Singapore

- Motor lifting frame
- Onboard structural survey
- Welder supply
- SMIT bkt repar
- Supply, fabrication & installation of lifting frame for motor
- Liquid fuel manifold repair
- Boiler survey
- Metalflex gaskets supply
- Fabrication of spool of module 4
- Boiler inspection
- Heat exchanger survey
- Pipework removal
- Inspection NR13 hand hole work
Vessel: FPSO Espadarte
Location: Brasil

- Engine room strip out
Vessel: FPSO Espirito Santo  
Location: Brasil & Singapore

- Economiser water washing - 2010
- Various Pipe Spool Supplies – 2010/2011
- Supplied hand hold doors and gaskets in 2010/2011
- Various welder supplies in 2010/2011
- Making Silencer - 2008
- Gauge glass - 2008
- Valve repair - 2008
- Safety valve - 2008
Vessel: FPSO Falcon
Location: Singapore

- Supply materials - 2001
- Retube and gas conversion - 2001
- Additional lagging and cladding removal - 2001
- Remove all cladding - 2001
- Supply air heater baskets - 2001
- Air preheater repairs - 2001
- Blasting and painting - 2001
- Supply, fabricate & install sootblower wall box - 2001
- Hire of equipment - 2001
- Supply electrical ports - 2002
- Supply SHD 120 pipe - 2002
- Weld in sect of feed line - 2002
- Weld on valves - 2002
- Lift MGO skid to new level – 2002
- Supply drawings for gas venting system - 2002
- Supply instruments for air heaters - 2002
- Fabrication & fit up FO recirc piping - 2002
- Repairs to boiler blow down piping - 2002
- Overhaul GAH sootblower gear box - 2002
- Repair air preheater wash line - 2002
- Supply drum door & boiler high tensile bolts - 2002
- Supply handhole doors - 2002
- Work platform on funnel at gas vents - 2002
- Boiler roof vents - 2002
- Supply argon gas - 2002
- Fit up Aquanet valves to blow down piping - 2002
- Modify air vent at boiler firing platform – 2002
- Repair of P&S air heater drains - 2002
Vessel: FPSO Marlim Sul
Location: Brasil

2010/2011
- Boiler survey
- Port boiler survey
- Refractory repairs on main boiler
- Supply gaskets
- Crane inspection
- Luffing cylinder seal
- Boiler inspection
Vessel: FPSO P57
Location: Brasil & Singapore

- Supply boiler tube - 2008
- Return boiler - 2008
- Conversion mechanical & electrical - 2008
- Valves - 2008
- Mods to steam line - 2009
- Boiler layup + maintain - 2009
- DH lay up continue 2010
- Addition to N2 Une – 2010
- Fabricate pipe spool - 2011
Vessel: Prostor II  
Location: Singapore

(All 1999)
- Inspection of cargo pipe gearing
- Supply bellow pieces
- Supply handhole
- Supply 250mm ductings
- Supply and fit condenser shields
- Supply 1/4 BSP screwed ends
- Supply class 1500 carbon steel valves
- Attemporator modifications
- Supply 16pcs 3/4" socket weld + 1500psi globe valves
- Supply 3/4" 1500# globe valves
- Hamworthy trunkings
- Reroute boiler drains and weld on valves
- Prepare superheater elements for long time storage
- Supply firebricks
- Supply flexible hose
- Installation of valves
- Supply 3/4" globe valves
- Supply gauge glass light boxes
- Supply insulating materials
Vessel: FPSO Rang Dong I
Location: Singapore

- Analysis of EGE casing material – 1999
- Supply & fit desuperheater – 2000
- Inspection - 2005
Vessel: FPSO II
Location: Singapore

• Supply insulation - 1997
Vessel: FPSO Saxi Batuque
Location: Singapore & Brasil

- Uptake bellow - 2007
- Additional steam valve work - 2007
- Retubing and conversion - 2007
- UV-17 valve body repair - 2008
- Gas vent modification - 2008
- Burner removal/refit - 2008
- M/C CrMo flanges - 2008
- Soot blower panel - 2007
- Smoke density - 2007
- Main boiler inlet bellow - 2007
- Auxiliary boiler casing & bellow - 2007
- Safety valve disc - 2007
- Design economizer - 2007
- Machining steam valves - 2007

- Additional work Ex Att - 2007
- Ext De-sup - 2007
- Sootblower components - 2007
- 8" CrMo elbow & pipe renewal - 2007
- Valve Machining - 2007
- Additional valve work - 2007
- Main steam v/v cut out - 2007

2009 – 2011
- Boiler survey
- Heavy lift survey
- Solar alternator repair
- Supplied superheater gaskets and hand hole door spares in 2009/10
**Vessel:** Tantawan Explorer  
**Location:** Singapore

<table>
<thead>
<tr>
<th>Year</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1996 | Boiler inspection  
Supplies service engineer to assist with firing  
Supply tubes for lower furnace  
Supply UT from Matcor  
Attemperator tube supply  
Supply roof tubes  
Supply air heater  
Supply Cronite brackets  
Supply new air preheater  
Supply and perform "E" wall tubes (port & stbd)  
Supply steam pipe  
Supply sootblower spares  
Superheater steam line material supply  
Supply globe valves  
Supply CrMo pipes  
Supply 2 threadolets  
Supply 6 boiler drum manhole door gaskets  
Supply fabric bellows  
Economizer repair  
Supply insulation refractory  
Supply spares  
Supply expander and courier service |
| 1997 | Modifications to rudder locking  
Feed pump shaft repair  
Cargo pump repair  
Supply bulb smoke density meter  
Modifications to rudder locking  
Feed pump shaft repair  
Cargo pump repair  
Supply bulb smoke density meter  
Feed pump casing repair  
Supply boiler gaskets  
FD fan and LO cooler retubing  
Repairs to cargo pump casing  
Repairs to cargo pump casing  
Retube 2 lub oil cooler  
Check align of feed pump shaft  
Cooler and end cover various repair  
Supply CuNi piping and fittings  
Supply of yorcalbro piping and coupling  
Upgrade feedwater c/l control system  
Repair to cargo pump casing  
Retube lub oil cooler  
Tube insert  
Supply seal kits  
Supply Tube  
Retube lub oil cooler  
Supply UV lamps  
Lub oil cooler  
Boiler repair  
Supply tubes |
| 1998 | Emergency boiler repairs  
Inspection  
Supply tubes  
Emergency boiler repairs  
Inspection  
Emergency boiler repairs  
Starboard boiler repairs  
Fit new valves  
Supply flanges  
Supply tube  
Supply 2 x superheater elements  
Supply brackets  
Investigate boiler trips  
Boiler control system - checks & training of staff  
Emergency boiler repairs + inspection  
Supply expansion bellows + hoppers  
Supply tubes  
Combustion checks etc and boiler controls  
Supply hoses & sov. Connector  
Supply engineer  
Emergency repair to port boiler  
Emergency repairs to port boiler  
Emergency boiler repair  
Supply tubes  
Repair work  
Boiler inspection x 2  
Emergency boiler repair  
LPSE Plugging |
Vessel: FPSO Kikeh
Location: Singapore

- Gasket supply – 2010
- Boiler inspection – 2010
- Supply gaskets - 2010
- S/H tube plugging - 2010
- Boiler replica testing - 2010
- Drain pipe supply - 2010
- Inspection of boiler - 2011
- Supply header plugs and weld – 2005
- Feedwater piping work – 2007
- Boiler refurbishment – 2005
- Vent lines – 2007
- FD fan starter modification – 2006
- Blast & prime gas pipe - 2005
- GAH additional work - 2005
- Dye penetration - 2005
- UT checks on attemporator - 2005
- Supply stub piece - 2005
- Desuperheater retubing - 2005
- Supply air heater seals - 2005
- Supply air heater baskets - 2005
- Supply air heater bearings - 2005
- New design and supply furnace doors - 2005
Vessel: FPSO Litiopa
Location: Singapore

- Supply superheater - 2006
- Install superheater - 2006
- Stop valve blank & overhaul - 2006
- Repair LO cooler - 2006
- Set safety valve - 2006
- Supply technicians - 2006
- Steam pipe flange repairs - 2006
Vessel: FPSO Okah
Location: Singapore

- Supply painting squay - 2011
- Remove valves boiler reservation - 2009
- Install steam separator - 2010
- Feed water pipe mods - 2010
- Drawing hydropore tank service air tank - 2010
- S P Unit columns - 2010
- Conversion work - 2009
- Boiler + conversion work - 2009
- Open & close burner - 2011
- Open boiler doors - 2009
- Inspection - 2009
- Drain MODS SIL requirements - 2010
- Install man access door - 2010
- Extend vent unit – 2010
- P & S boiler lay up - 2010
- Wind box mods - 2010
- Pre-heater - 2010
- MODS to steam line & spectacle blind - 2010
- Impulse line - 2010
- Supply, fit valves - 2010
- Boiler study - 2008
- Conversion work - 2009
- PMI tests - 2009
- Install new HCE FD fans - 2010
- Gas pipe vent mods - 2010
- Drum nozzel design + install - 2009
- Supply & repair valves - 2009
Vessel: FPSO OSX2
Location: Singapore

- Boiler retube - 2012
- Boiler conversion - 2012
- Chemical clean - 2011
- Pressure test - 2011
- Inspection - 2011

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Vessel: FPSO Aseng
Location: Singapore

- Boiler retube - 2010
- V/v work - 2010
- Conversion install mechanic - 2010
- New boiler - 2010
- Renew buck stay supports - 2010
- Renew refractory boxes - 2010
- Valves spindlus - 2010
- Supply disc safety valve - 2010
- Drum door repairs - 2010
- Valve repair - 2010
- Supply 3 round bellows - 2010
- Soot blower repair - 2010
- Boiler additional - 2010
- Boiler layup silica gel - 2010
- Supply & install valves - 2011
- Supply Valve - 2011
- Supply actuator - 2011
- Supply tubes, refractory & steel
- Boiler C Inspection
- Boiler C dismantling works
- Supply belows & transition duct
- Boiler C tubes & materials
- Boiler B repairs
<table>
<thead>
<tr>
<th>Vessel:</th>
<th>Client:</th>
<th>Location:</th>
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<tbody>
<tr>
<td>FPSO Sao Vicente</td>
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<td>Modec</td>
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<td>Golar Winter</td>
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<td>Juno</td>
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<td>Jurong Shipyard</td>
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</table>
Vessel: Kadriah 1
Client: KIC Oil & Gas
Location: Singapore

Vessel: Kadriah II
Client: Shell
Location: Singapore

Vessel: Kakap Natuna
Client: PT Dwisatu Mustika Bumi
Location: Singapore

Vessel: Khamur
Client: Golar Management
Location: Singapore

Vessel: Lampas
Location: Singapore

Vessel: Lanistes
Client: Shell
Location: Singapore

Vessel: Lewek Emas
Client: Emas Offshore
Location: Singapore

Vessel: Magnolia
Client: Mobil Shipping
Location: Singapore

Vessel: Marine Atlantic
Client: V. Ships
Location: Singapore

Vessel: Marine Pacific
Client: V. Ships
Location: Singapore

Vessel: Maxus Widuri
Client: Tanker Pacific
Location: Singapore

Vessel: Mosscliff
Client: SBM Offshore
Location: Singapore

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