



# Kyma Steam Analyzer : Data Input Form

Vessel : Demo LNGC

Trial Condition : 90% MCR, Fuel Oil  
 Trial Date : 11-Oct-2000 15:04:04

Trial Duration : 0hrs 15min.

## Fuel Data

	Unit	
- Fuel Oil mass flow to boilers	Kg/Hr	6850
- Fuel Oil sp. gravity at 15°C	[No unit]	0.9800
- Fuel Oil high calorific value	kJ/kg	43032
- Boil-off gas mass flow to boilers	Kg/Hr	0
- Boil-off gas nitrogen contents	Percent	0.0
- Boil-off gas calorific value	kJ/kg	55565

## Main Boilers

	Unit	No. 1	No. 2
- Air temp. SAH inlet	Deg. C	45.0	45.0
- Air temp. SAH outlet	Deg. C	130.0	130.0
- Gas temp. ECO inlet	Deg. C	340.0	340.0
- Gas temp. ECO outlet	Deg. C	176.0	176.0
- Feedwater temp. ECO outlet	Deg. C	192.0	192.0
- Superheater outlet steam pressure	MPa rel	5.88	5.88
- Superheater outlet steam temp.	Deg. C	525.0	545.0
- Desuperheater outlet steam temp.	Deg. C	287.0	287.0
- Steam temperature at SAH inlet	Deg. C	236.0	236.0
- Stack gas oxygen content	Percent	2.0	2.0
- Fuel oil pressure at burners	MPa rel	2.00	2.00

## Main Feed Pumps

	Unit	No. 1	No. 2
- Steam chest pressure	MPa rel	4.20	0.00
- Discharge pressure	MPa rel	7.60	0.00
- Recirculation valve (1=open/0=closed)	[No unit]	0	0
- Extra nozzle group (1=open/0=closed)	[No unit]	0	0

## Turbo Generators

	Unit	No. 1	No. 2	No. 3
- Generator load	kW	900	0	0
- Exhaust steam temp	Deg. C	40.0	0.0	0.0



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## Main Turbine

	<u>Unit</u>	
- 1st stage pressure	MPa rel	3.00
- 1st bleed pressure	MPa rel	1.47
- 1st bleed temperature	Deg. C	352.0
- Cross-over pressure	MPa rel	0.49
- Cross-over temperature	Deg. C	236.0
- 3rd bleed pressure	MPa rel	0.024
- 3rd bleed temperature	Deg. C	108.0
- LP turbine exhaust steam temp	Deg. C	33.0
- 1st bleed valve (1=open / 0=closed)	[No unit]	1
- 2nd bleed valve (1=open / 0=closed)	[No unit]	1
- 3rd bleed valve (1=open / 0=closed)	[No unit]	1

## Main Condenser

	<u>Unit</u>	
- MC absolute pressure	mm Hg abs	38.0
- MC inlet sea water temp.	Deg. C	24.0
- MC overboard sea water temp.	Deg. C	28.0
- MC hotwell condensate temp.	Deg. C	33.0

## Condensate and Aux. Systems

	<u>Unit</u>	
- 1st. heater inlet condensate temp.	Deg. C	50.0
- 1st. heater outlet condensate temp.	Deg. C	98.0
- 1st. heater outlet drain temp.	Deg. C	70.0
- Deaerator shell pressure	MPa rel	0.15
- Deaerator inlet steam temp.	Deg. C	350.0
- Deaerator water temp.	Deg. C	128.0
- 3rd. heater shell steam pressure	MPa rel	0.49
- 3rd. heater outlet feedwater temp.	Deg. C	145.0
- 3rd. heater outlet drain temp.	Deg. C	135.0
- Atm. drain tank temp.	Deg. C	62.0
- Pressure in 0.9 MPa line to heating	MPa rel	0.90
- Service Dsphtr. outlet steam temp.	Deg. C	200.0
- Forcing Vaporizer (1=operat./0 =secure)	[No unit]	0



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## Steam Plant Operation

	<u>Unit</u>	
- Propulsive power	kW	24120
- Propeller speed	Rev/Min	85.9
- Distiller No.1 production	m3/Hr	0.00
- Distiller No.2 production	m3/Hr	1.40
- Feed water make-up	m3/Hr	1.40
- 0.9/0.24 MPa reduction to exhaust line	Percent Op	0
- 1.6/0.9 MPa reduction to heating	Percent Op	50
- 6.0/0.9 MPa reduction to heating	Percent Op	0
- 0.53/0.17 MPa reduction to exhaust lin	Percent Op	15
- 0.01 MPa reduction to distillers	Percent Op	0
- Exh. steam dump to MC	Percent Op	0
- Main steam dump to MC	Percent Op	0