



ENTEGRO Ltd.



YOUR PARTNER FOR POWER ENGINEERING – AGENCIES AND CONSULTING FOR POWER STATIONS

REFERENCE LIST ARGENTINA

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COOPERATING BANK:
NATIONAL BANK OF GREECE
PTOLEMAIS BRANCH



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Reference List Entegro Ltd. Steam Turbine General Maintenances LMZ K-300-240 and generators TBB-300-2Y3 Electrosila (Argentina).

a/a	Installed equipment	SES	Unit Number	Last Unit Maintenance - Year	Maintenance Type	General Contractor / Subcontractors
1	K-300-240/TBB-300-2Y3	SES Piedra Buena	29	2015	Full Maintenance with partial equipment upgrade	Entegro LTD/ LER Turbo/ (Russia)/ Petersburg Energetik (Russia)
2	K-300-240/TBB-300-2Y3	SES Piedra Buena	30	2016	Full Maintenance with partial equipment upgrade	Entegro LTD/ LER Turbo/ (Russia)/ Petersburg Energetik (Russia)

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Table of Works – Repair and Maintenance of Steam Turbine K-300-240 LMZ of Units 29 and 30
SES Piedra Buena (Argentina) from Entegro Ltd Greece.

a/a	Description of Works	Unit 29 / 30	Year of work execution
1.	a) Complete Repair HPR of steam turbine K-300-240 LMZ with fins Re-blading stages 1....12 b). MPR Re-blading with 29 stage replacement c) LPR Re-blading with 34-39 stages replacement d). Final process of HPR, MPR and LPR to balancing machine of SES. e). Works of Static Balancing HPR, MPR, LPR	29 / 30	2015 / 2016
2.	Complete Steam Turbine Maintenance with specifications of Construction House LMZ with application of below partial / local upgrades - Installation and place in operation of rotors lifting to turbine and generator bearing 1.....7 - Installation of end sealing systems LPR - Installation of upgraded bearing No 1 - Upgrade of suspension system of Stop-Valves MPS - Installation of sealing in flanges of MPS and LPS - Installation of Connectors to compler of Rotors Steam Turbine - Replacement of sealing system pre-heater with new type	29/30	2015 / 2016



Table of Works – Repair and Maintenance of Generator K-300-240 LMZ of Units 29 and 30 SES Piedra Buena (Argentina) from Entegro Ltd Greece.

a/a	Description of Works	Unit	Execution Works - Year
1.	Complete Repair of Generator's rotor according with specifications of Construction House Electrosila	29 / 30	2015 / 2016
2.	Complete Repair of Generator's stator according with specifications of Construction House Electrosila	29 / 30	2015 / 2016
3.	Implementation of partial / local upgrades Supply and installation of additional bearing No. 8 of generator Installation of vibration absorbers to generator's stator Installation of new exciter cooler Execution of tests to generator's stator type EL CID and Modal Analysis	29 / 30	2015 / 2016



Reference List for supply for Repair of Power Transformers

A/A	Customer	Description of works	Working Period
1	Piedra Buena P.P. / Unit 29	Diagnostic and repair work of Power Transformer TDC-400000 kVA, ZTR (Ukraine)	2015
2	Piedra Buena P.P. / Unit 30	Diagnostic and repair work of Power Transformer TDC-400000 kVA, ZTR (Ukraine)	2016

Reference List for supply of ZTR spare parts.

A/A	Customer	Description of works	Working Period
1	Piedra Buena P.P.	Supply spare parts for Power Transformer TDC-400000kVA, ZTR Units 29/30	2016
2	Piedra Buena P.P.	Supply spare parts for Power Transformer TDC-400000kVA, ZTR Units 29/30	2015-2016
3	Piedra Buena P.P.	Supply spare parts for Power Transformer TDC-400000kVA, ZTR Units 29/30	2015-2016