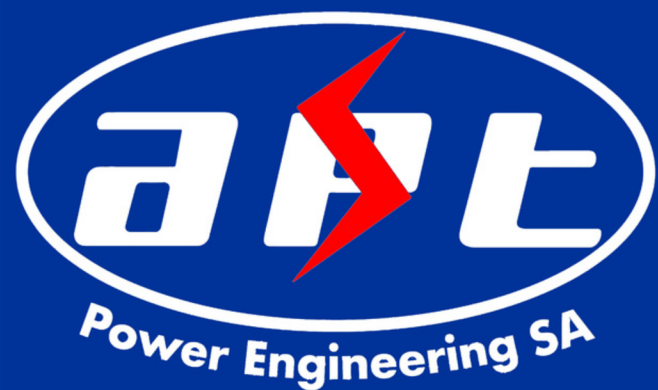




COMPANY PROFILE



TABLE OF CONTENTS

ABOUT US

MISSION & VISION

SERVICES

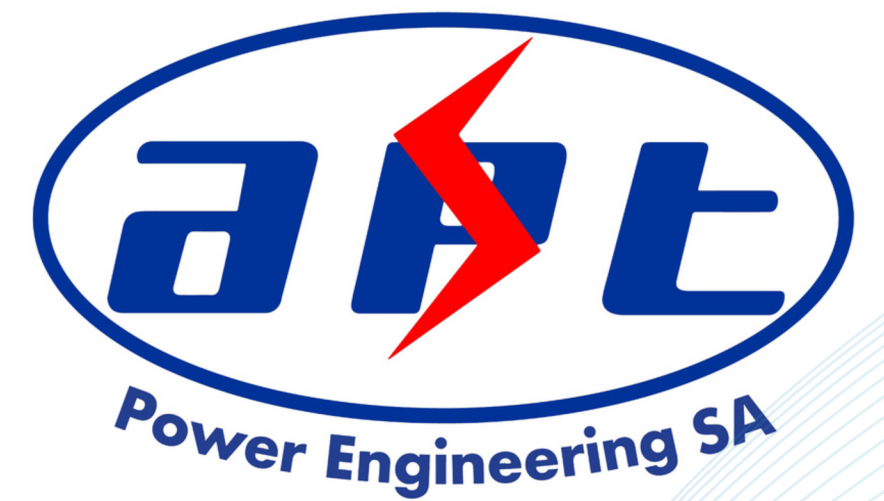
KEY SERVICES

CONTACT DETAILS



DRIVEN BY *QUALITY* **DEFINED BY *RESULTS***

APT POWER ENGINEERING SA WAS ESTABLISHED IN 2022 TO SERVICE THE SOUTHERN AFRICAN ENERGY SECTOR. APT IS A RECOGNIZED LEADER IN SOUTH AFRICA, PROVIDING INNOVATIVE AND RELIABLE ENGINEERING AND PROJECT MANAGEMENT SOLUTIONS.



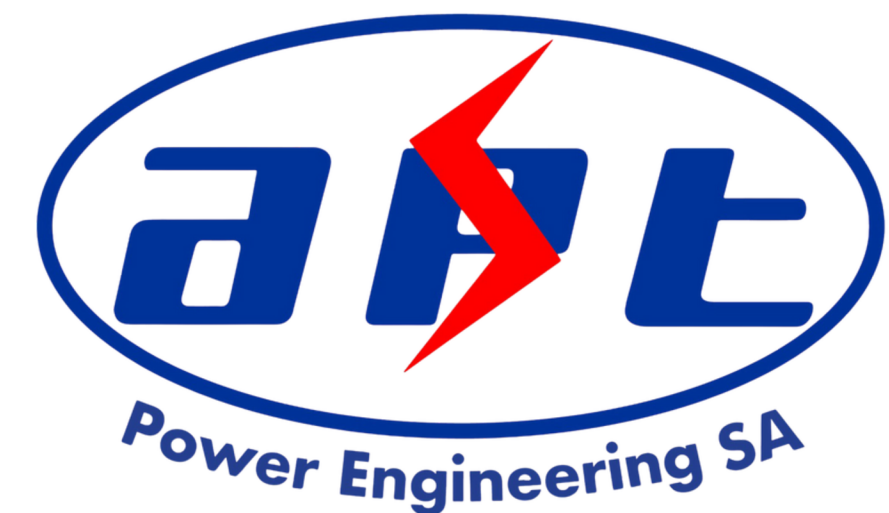
VISION

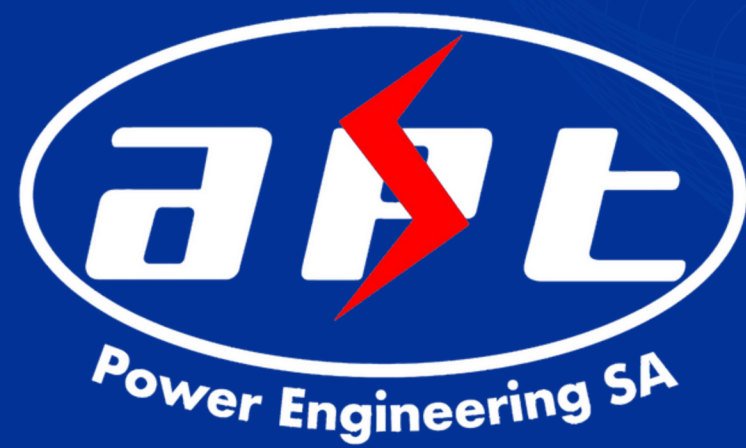
TO BE A LEADING POWER PLANT ENGINEERING & PROJECT MANAGEMENT SERVICE PROVIDER THAT OFFERS EFFICIENT, RELIABLE AND QUALITY SERVICES THAT EXCEED CUSTOMERS' EXPECTATIONS.

- EXCELLENCE THROUGH CUSTOMER SATISFACTION.
- ZERO INCIDENT
- QUALITY, INNOVATION, AND EFFICIENCY.
- HONESTY, INTEGRITY, AND TRANSPARENCY.

MISSION

- CONTINUOUS IMPROVEMENT OF OUR SERVICE AND PROFESSIONAL RELATIONSHIPS
- COST-EFFECTIVE AND INNOVATIVE SOLUTIONS.
- MAINTAIN THE BEST ETHICAL AND QUALITY PRACTICE IN ALL PROJECTS
- ENSURE CUSTOMER SATISFACTION AND SIGNIFICANT VALUE ADD TO OUR CLIENTS.





APT PROVIDES A WIDE RANGE OF SOLUTIONS IN MAINTENANCE, ENGINEERING, PROCUREMENT, INSTALLATION AND COMMISSIONING SERVICES FOR ALL TURBO-GEN PLANTS AND THEIR AUXILIARIES INCLUDING AFTER-SALES SERVICES.

APT'S CORE STRENGTH IS ITS YOUTHFUL, ENERGETIC, DEDICATED TEAM OF PROFESSIONALS.

APT HAS AN INDUSTRY ORIENTED WORKFORCE OF ABOUT 600 SKILLED , ARTISANS , QUALITY CONTROLLERS, TECHNICIANS, ENGINEERS, CONSULTANTS AND SUPPORTING STAFF.



TURBINE OVERHAUL

TYPICAL TURBINE GENERATOR PROJECT SCOPE OF WORK

HP AND IP MODULAR EXCHANGES (INNER CASING, DIAPHRAGMS, GLAND BOXES AND ROTORS).

FULL OVERHAUL AND REFURBISHMENT OF THE FOLLOWING;

STEAM ADMISSION VALVES (ESV AND CV), FOR HP, IP, LP BYPASS AND BFPT.
BOILER FEED PUMP TURBINE (BFPT)

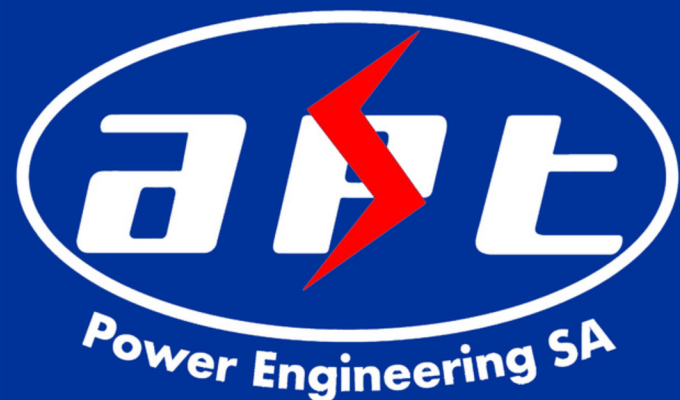
LP TURBINE COMPONENTS , INCLUDING ROTORS.

GENERATOR AND GENERATOR AUXILIARIES, INCLUDING GENERATOR ROTOR.

TURBINE CONTROL OIL, LUBE OIL, JACKING OIL AND SEAL OIL PUMPS.

INSPECTION AND CLEANING OF THE MAIN OIL TANK.

CLEANING, SANDBLASTING AND SURFACE PREPARATIONS FOR NON-DESTRUCTIVE TESTS ON TURBINE COMPONENTS.



GENERATOR

TYPICAL TURBINE GENERATOR PROJECT SCOPE OF WORK

REFURBISHMENT OF ALL ACTUATORS.

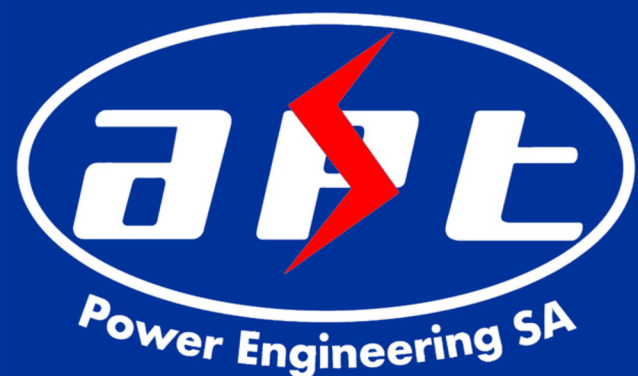
VISUAL, DIMENSIONAL AND NDT (WHERE APPLICABLE) INSPECTIONS ON
TURBINE CENTRELINE BEARINGS, OIL BAFFLES, DIVA LINERS, CASING
SUPPORTS, TIE RODS AND BEARING PEDESTALS.

TURBINE CENTRELINE COUPLING CONCENTRICITY.

COMMISSIONING OF THE SUB SYSTEMS.

ATTEND TO OUTAGE DEFECTS.

MONITORING OF THE TURBINE GENERATOR DURING RETURN TO SERVICE
(RTS) UNTIL MEGAWATTS ARE ON THE GRID.



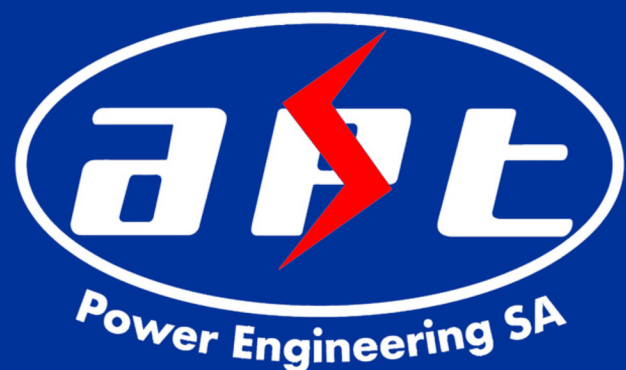
FIRSTLINE MAINTENANCE

AP TSA OFFERS ROUTINE PREVENTATIVE AND CORRECTIVE MAINTENANCE AS PART OF THE CONTRACTED SERVICE.

THE OBJECTIVE OF OUR MAINTENANCE PROGRAM IS TO KEEP OUTAGE WINDOWS TO A MINIMUM, WITH OUR TECHNICIANS OFFERING TURNKEY AND FIELD-BASED SERVICE. REAM PROVIDES STATOR AND ROTOR INSPECTIONS AND MOST REPAIRS ON SITE TO FURTHER ASSIST WITH QUICK REACTIVE RESPONSE TIMES.

SOME COMMON REPAIRS INCLUDE:

STATOR RE-WEDGING
ROTOR RETAINING RING REMOVAL / REPLACEMENT
STATOR CORE REPAIRS
END WINDING REPAIRS
ROTOR AND STATOR REWINDS

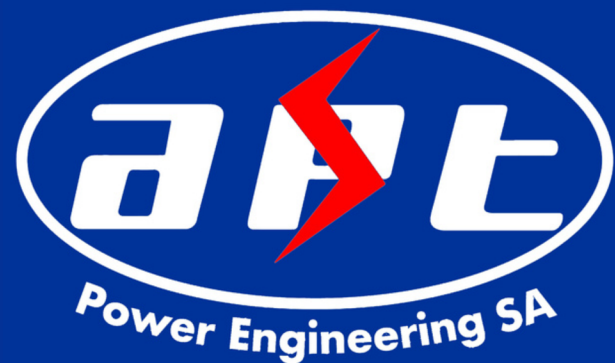


QUALITY

OUR QUALITY CONTROLLERS ARE TRAINED AND EXPERIENCED TO CONDUCT INSPECTIONS ON BOILER PLANTS, TURBINE CENTRELINE, GENERATORS AND AUXILIARY PLANTS.

INSPECTIONS INCLUDE BUT NOT LIMITED TO WELDING AND EQUIPMENT.
THREE (3) CRITICAL AREAS ARE COVERED;

- INSTRUMENTATION AND CONTROL
 - ELECTRICAL
 - MECHANICAL



TRAINING

APT PROVIDES A NUMBER OF TECHNICAL TRAINING COURSES THAT ARE ESSENTIAL TO THE DEVELOPMENT OF OUR SKILLED RESOURCES. THE COURSES ARE CONDUCTED BY ESKOM APPROVED FACILITATORS.

PRECISION MEASURING

TURBINE FUNDAMENTALS

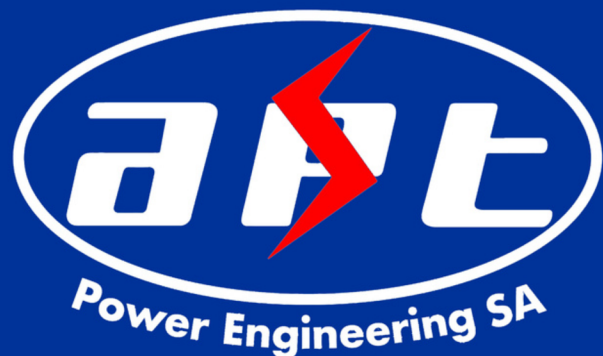
BASIC HYDRAULICS AND PILGRIM EQUIPMENT

BASIC HAND AND POWER TOOLS

TOOL STORE MANAGEMENT

BOLT HEATING (RATHGEBER)

SAFETY FOR SKILLED WORKERS



SAFETY

IN ALIGNMENT WITH THE COMMITMENT TO ZERO-INCIDENT , APT EQUIPS ITS
EMPLOYEES WITH TRAINING OF THE FOLLOWING;

WORKING AT HEIGHTS

CONFINED SPACE

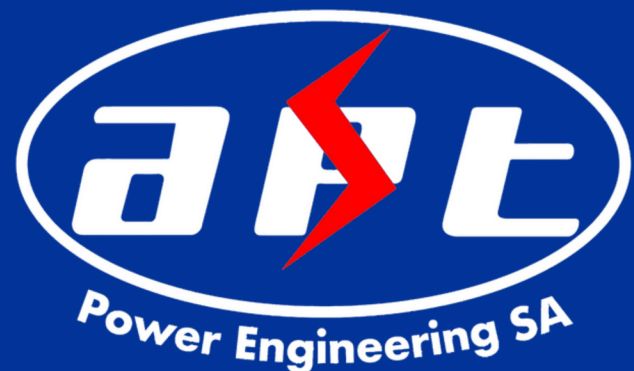
HIRA

BBSO

NEAR-MISS REPORTING

CLEAN CONDITIONS

PSR (PLANT SAFETY REGULATIONS) AWARENESS



SAFETY BY CHOICE

NOT BY CHANCE

CONTACT DETAILS

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