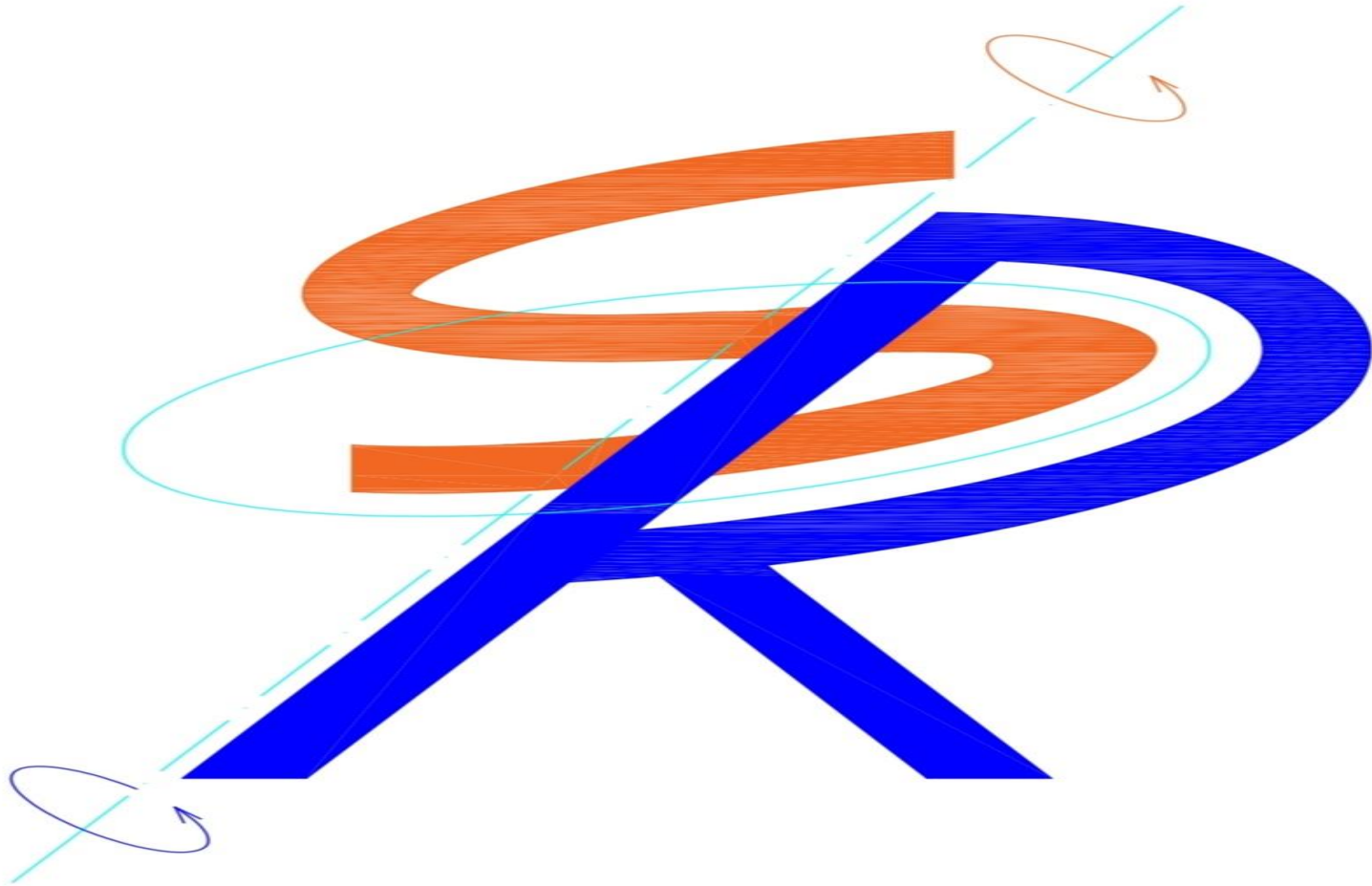




ROTOSMART

PROCESS EQUIPMENT MAINTENANCE AND CONSULTING

SCOPE OF SERVICE



A photograph of an industrial facility, likely a refinery or chemical plant, with complex piping and structural elements. In the foreground, a large, horizontal, rusted metal pipe or component lies on the floor. Three workers in blue uniforms and hard hats are visible: one is kneeling near the pipe, another is standing nearby, and a third is further back on the right. The scene is dimly lit, with some light coming from windows or overhead fixtures.

1. REPARATION AND PERIODICAL / PLANNED OVERHAULING OF ROTATING EQUIPMENT

- * Equipment dismantling (including inspection of pipe tension, and recommendation for corrections)**

- * Inspection (determining condition of the equipment and the cause of failure, list of spare parts and measurements)**



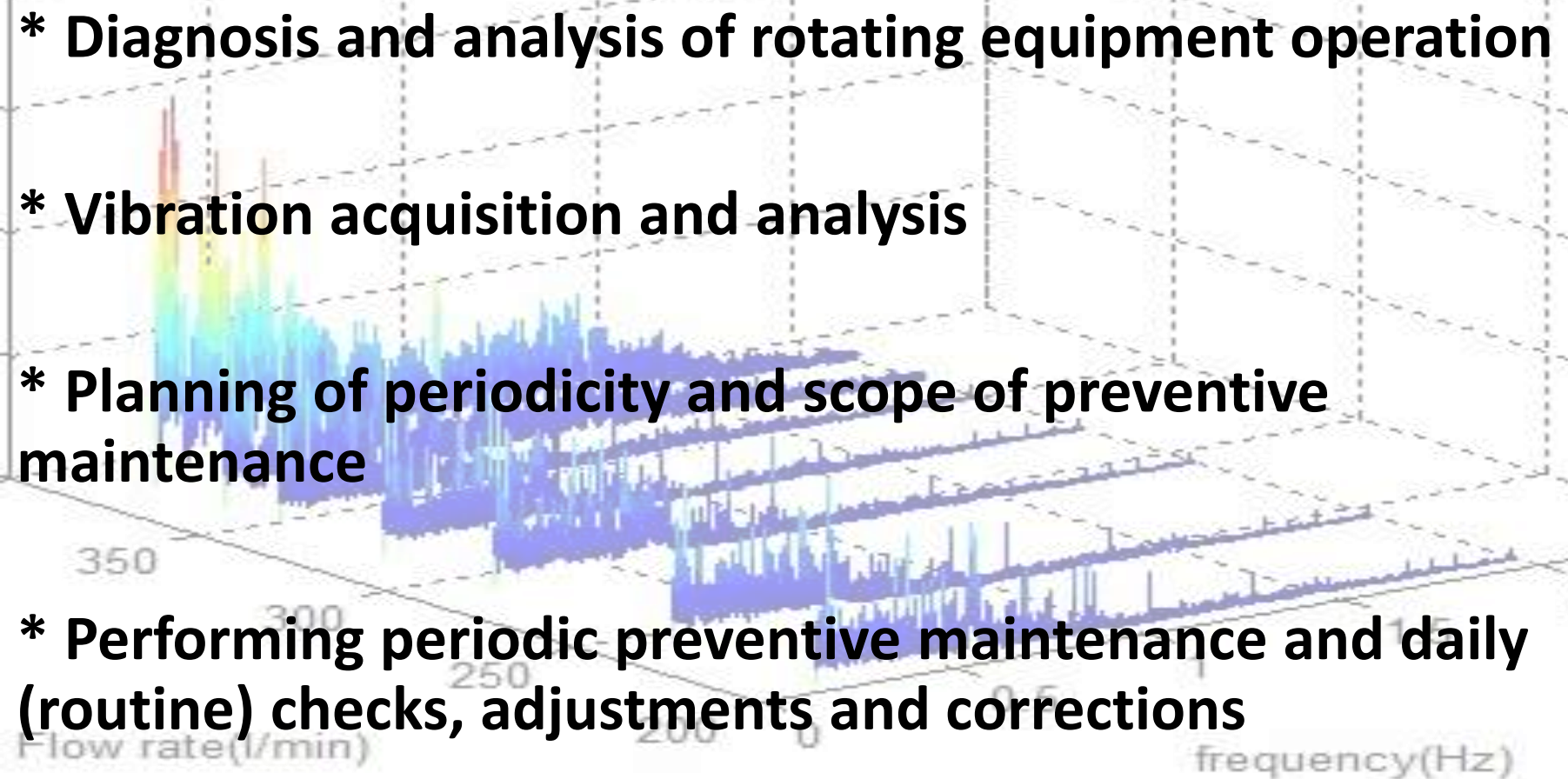
*** Assembling (checking the quality of spare parts received, installation of parts, adjustments, measurements and balancing)**

*** Reinstallation (positioning of equipment, connection of auxiliary systems and alignment)**

*** Start-up (assistance and monitoring during 72 hours)**

*** Final report and vibrodiagnostic report**

2. PREDICTIVE AND PREVENTIVE MAINTENANCE OF ROTATING EQUIPMENT

- * Diagnosis and analysis of rotating equipment operation**
 - * Vibration acquisition and analysis**
 - * Planning of periodicity and scope of preventive maintenance**
 - * Performing periodic preventive maintenance and daily (routine) checks, adjustments and corrections**
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3. SPARE PARTS MANAGEMENT

- * Creating spare parts lists**
- * Analysis of the current balance of spare parts in the warehouse**
- * Defining min / reorder / max for spare parts**
- * Unification / standardization of spare parts**

4. REPAIRS AND UPGRADES

*** Determining technical conditions and the scope of reparations**

*** Proposing upgrades and modifications based on positive engineering practice and personal experience**

5. RESOURCES

- * Experienced engineers and technical staff
- * Machine workshop and mobile workshops
- * Various mechanization
- * Special and measuring tools and devices



REFERENCES (personal):

Jobs:

Preventive and corrective maintenance of rotating equipment

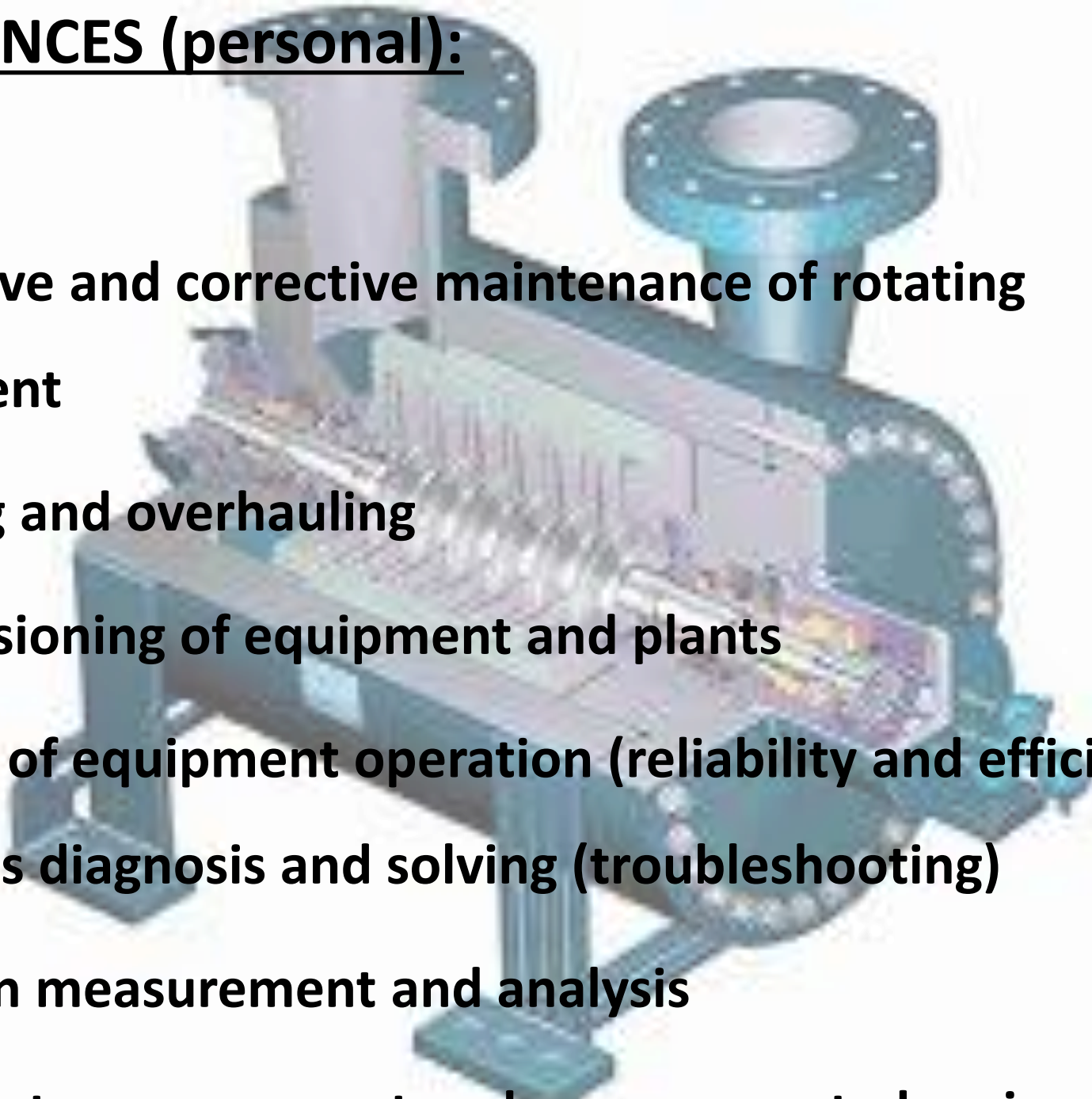
Planning and overhauling

Commissioning of equipment and plants

**Analysis of equipment operation (reliability and efficiency),
problems diagnosis and solving (troubleshooting)**

Vibration measurement and analysis

Spare parts management and procurement planning





Sites:

Oil Refinery - NIS Pančevo, Serbia

**Gas Fields and Gas Plants- Libya (Mellitah, Wafa),
Kazakhstan (Karabatan, KPO), Iraq (Basra)**

**Chemical and Petrochemical Industry – Serbia (Azotara
Pančevo, Petrohemija Pančevo, MSK Kikinda, Prva Iskra
Barič), Libya (RASCO), Algeria (ASMIDAL)**

Equipment (mainly according to API standard):

Centrifugal pumps - Sulzer, Flowserve, KSB, Worthington, Goulds, Ensival, Gabbioneta, Hermetic, Optimex, United...

Reciprocating (Lewa, Uraca), screw and dosing pumps - various manufacturers

Centrifugal compressors - Dresser Rand, Siemens, MAN, Worthington, Clark, Creusot Loire, Sulzer...

Reciprocating compressors - Dresser Rand, Nuovo Pignone, Thomassen, Neuman Esser, Worthington, Ariel...

Steam turbines - Siemens, Worthington, Elliott, Hayward Tyler, KKK, Coppus, Terry, Turbodyne...

Screw compressors, gearboxes (reducers and multipliers), gas motors, gas expanders, blowers, fans ...



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