



MASSI
NETWORK

EVERYTHING IS POSSIBLE

PJP4 | OGS

+30 YEARS

IN THE SERVICE OF THE
ENERGY
INDUSTRY



EMPRESA
SOCIALMENTE
RESPONSABLE

OUR SERVICES



OPERATION AND MAINTENANCE



GENERATION OF POWER



INTEGRITY PIPELINE MECHANICS



ENGINEERING AND CONSTRUCTION



SPECIALIZED SERVICES:
WELL SERVICE, WELL REPAIR,
WELLTESTING, STEELLINE, CONFORMITY
ASSESSMENT



OPERATION AND MAINTENANCE

- PJP4 has developed O&M activities and comprehensive services for production facilities, process installations, and power generation plants since 1998 in various regions, such as Mexico, Argentina, Colombia, the United States, and Venezuela.





OPERATION AND MAINTENANCE

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Comprehensive facilities management

Management of auxiliary process systems

Measurement, transfer and custody of production

Generation, distribution and transfer of energy Gas

compression systems Instrumentation and control

systems Computerized management systems

Conformity assessment and condition audits
operational





OPERATION, MAINTENANCE

AND MANAGEMENT OF MECHANICAL SYSTEMS

PJP4 is capable of maintaining asset production levels, following the most demanding market standards.

We offer service models for:

- Oil Lift Systems, including Mechanical Pumping, Screw Pumps, GasLift, and Submersible Pumps

- Separation Systems. • Gas compression systems for generation,
Injection and Transportation
- Transfer and Transportation of petroleum and derivatives.
- Condition Monitoring (Vibrations, Lubricants, Infrared thermography etc.)
- Static Systems, Risk-Based Inspection. • Mechanical Integrity.



For over 15 years, PJP4 has performed Operations and Maintenance of Mechanical Systems in Venezuela, Argentina, the United States, Colombia, and Mexico, combining Processes, Techniques, and Resource Management.

Human.



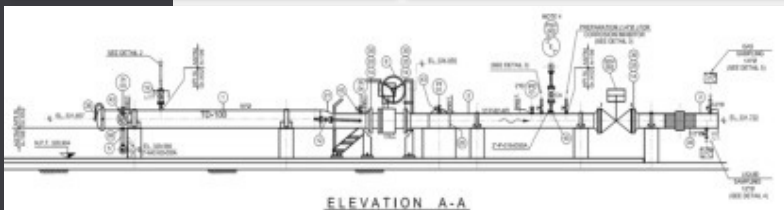
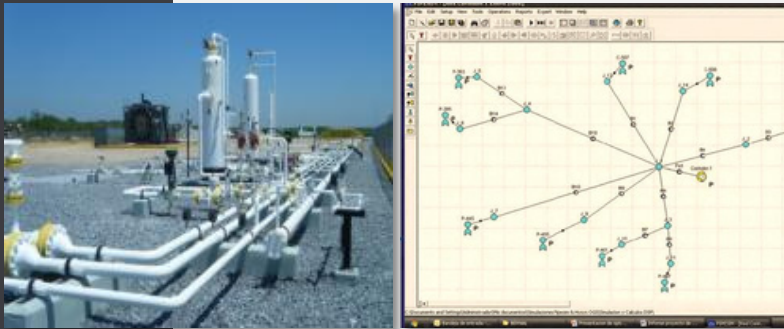
PJP4 has managed to integrate the latest Condition Monitoring Technologies for Mechanical, Static and Dynamic Equipment with the development of Optimal Asset Management Systems, ensuring that your equipment fulfills the function for which it was selected, with the optimal service time.



ENGINEERING AND CONSTRUCTION

Conceptual, basic and detailed engineering for the development of Infrastructure: Oil and gas transportation and distribution lines; Hydrocarbon gathering, separation, and measurement stations

Separation, sweetening and dehydration plants
Power grid systems Production facilities Process design and simulation Process risk analysis





GENERATION OF POWER

CONSTRUCTION, OPERATION AND MAINTENANCE

- Supply, operation and maintenance service of 600KW, 480 VAC, 60Hz power generation equipment, powered by a diesel engine.
- Dual power generation system for continuous service, including a system of Automatic transfer between power transformers (normal CFE power supply) and generators (emergency power supply in case of failure), automatic and/or manual start and stop control cabinet, wiring and testing.
- Medium and low voltage power transformers. Power Distribution Center, with metal-enclosed cells, switches, disconnectors, and protection, measurement, and control cabinets.
- Electrical grid systems: supply, installation, and connection of power and control cables, cable trays, cable trenches, ductwork, and manholes.
- Grounding and lightning protection system. Insulation testing, ground resistivity and resistance measurement.
- Start-up and commissioning tests.





GENERATION OF POWER

CONSTRUCTION, OPERATION AND MAINTENANCE

- Operation and maintenance service of three (3) AGGREKO power generation modules of 1375 KW, 480 VAC, 60 Hz each, powered by a gas engine.
- Installation of the three generation modules.
- Installation of cable trays and trenches.
- Installation and connection of Manual Transfer Switches between transformers, power (CFE backup electrical service) and generators (normal electrical service).
- Wiring in trenches and cable trays, connection to power centers and grounding.
- Functional testing and commissioning.



Transfer Switch Connection Manual



Double generation module of 1375 KW each



Module Inspection measurement and control

GENERATION OF POWER

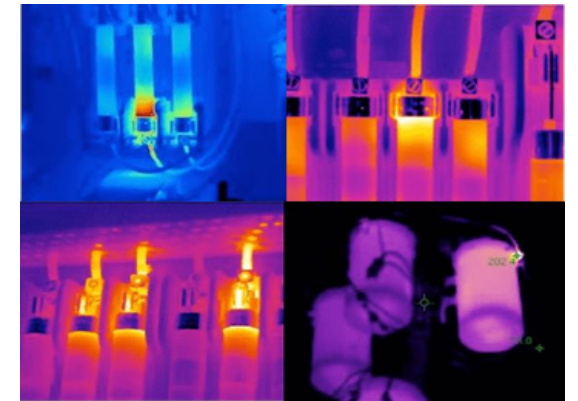
CONSTRUCTION, OPERATION AND MAINTENANCE



- Repair and maintenance service for 1000 KVA power transformer, 13,200 / 480 V, due to a fault detected in the insulation of the 15 KV cable (high voltage side), Phase 2.
- Operation of a medium voltage fuse disconnecter to de-energize the power supply at 13,200 volts.
- Disconnection of high voltage cables (15 kV)
- Removing the access cover to the transformer tank
- Inspection and testing of coil and conductor insulation.
- Detection of insulation faults in phase 2 high voltage cable.
- Removing the damaged section of the cable. Preparing the tip and inserting the terminal.
- Testing and verification of conductor insulation.
- General maintenance, oil filtration, dielectric testing, equipment shutdown and energization.



Transformer intervention



Checking connections and cables

GENERATION OF POWER

CONSTRUCTION, OPERATION AND MAINTENANCE



- Maintenance of the overhead electrical distribution system at 13,200 volts.
- This includes disconnection of sections of the circuit to replace 15 kV fuses blown due to eventual faults and tree pruning, an activity carried out by a team of electricians certified for work at heights and circuit operation.
medium voltage overhead lines up to 15 kV.



*Pole intervention
telescopic*



*Circuit opening
13.2 kV in battery of
pumping*



*Direct access for
connection of
affected*



INTEGRITY MECHANICS

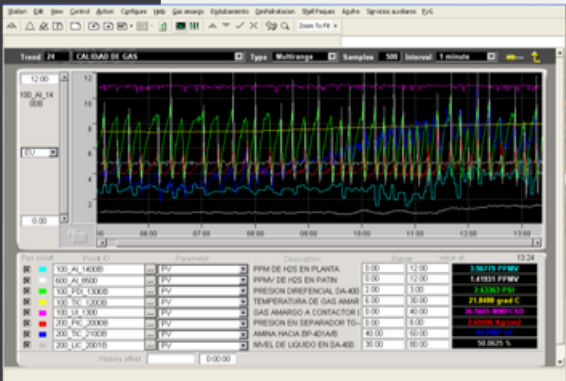
- Non-destructive testing Installation,
- maintenance and rehabilitation of cathodic protection systems Maintenance and
- preservation of pipeline rights-of-way
- Evaluation of the integrity of the dielectric coating in buried pipelines
- Interior cleaning and protection of ducts
- Analysis and assessment of equipment condition



PJP4 has successfully maintained monitoring and control systems at oil facilities in Venezuela, Argentina, Colombia, and Mexico, ensuring system reliability in accordance with the highest industry standards. Direct Measurement Systems, Distributed Control, SCADA, and Remote Monitoring. PJP4 personnel have developed complex skills to optimize systems and achieve maximum responsiveness.



We have developed a full range of services for managing your systems, performing field or laboratory calibrations tailored to your requirements.



We supply equipment and qualified personnel for the management of your Instrumentation Systems and Control.

SPECIALIZED SERVICES

OPERATION, MAINTENANCE AND CONTROL SYSTEMS - MONITORING

We provide instrumentation, control systems, and monitoring services to the energy industry. • Analog, digital, microprocessor, and PLC systems

- Engineering Operational, Preparation Operational, Maintenance and Optimization
- Calibration and Monitoring of Operational Conditions
- Supply of Qualified Personnel,
- Integration of Commissioning,
- P&IDs, Development and Update,
- Plant Start-up



We have developed an excellent reputation and expertise in well testing, ensuring high quality and traceability of measurements. Our services include: Well testing for oil and gas fields. Early production installations. Well test analysis and interpretation. Reservoir modeling. Diagnostic charts. Oil and petroleum product storage control. Production optimization. Oil transfer.



Slick Line Work is a service that PJP4 provides to our clients. of deposits activities,

Oil operators. These two words basically encompass a wide range of operations commonly referred to as "interventions" within oil wells.

SPECIALIZED SERVICES WELL SERVICES

WELLTESTINGSTEELINE

We offer timely and immediate solutions to our active and potential clients. Since 2008, we have added our their activities the line of Service a own infrastructure and equipment to the Wells division, facilitating the structuring, development, and evaluation of solutions to improve well productivity. Our scope of services includes: • Well Measurement and Cleaning • Slickline • Well Repair • Sonic Logging and Dynamometric Equipment



PJP4 has several fully equipped ground-based tower units and equipment (250 HP and 550 HP), with the capabilities to provide **WORKOVER** and **PULLING** type well repair services, complying in all cases with world-class standards in Operational Reliability.



En la vida de un pozo se realizan una cantidad importante de actividades, una de ellas es la intervención con **WORKOVER Y PULLING**. Estos servicios consisten en las reparaciones mecánicas necesarias para mantener la producción del bien, al igual, asegurar que los pozos producen en los niveles óptimos.

Además del mantenimiento periódico, los pozos productores de aceite y de gas requieren de vez en cuando reparaciones o modificaciones importantes para aumentar reservas económicamente recuperables del aceite y del gas.

SPECIALIZED SERVICES WELL SERVICES

WELL REPAIR: WORKOVER, PULLING AND CABILLERO

PJP4 Services of Mexico in the year 2013 marked the beginning of the Conceptualization of a new service line that would allow it to meet the requirements of some of its active clients regarding minor well repairs using drilling equipment. Among the work we perform are: • Well intervention • Changeover of final production arrangements • Well cleaning and level clearance

- Well abandonment in accordance with legal regulations
- Dismantling and installation of mechanical pumping units -UBM
- Lowering of mechanical pumping arrangements



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Besides periodic maintenance, oil and gas producing wells require significant modifications or modifications to economically recover the reserves of the well. This allows for an increase in oil and gas.

SPECIALIZED SERVICES WELL SERVICES

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Description of Works: • Construction of 3 km of 10" Ø x 1.29 km aqueduct from the Water Injection Plant

- Congenital Water Cold (PIAC-Water Cold) Macropera Cold Water 846.
- Construction of 4km of 6" Øx aqueduct 3 km from Agua Fria 846-Agua Fria 705.



Description of the Works:

- WorkEPCdelOleogasoductof20"Øx2.1 km from MP Perdiz 579 to MP Perdiz 35.
- WorkEPCdelOleogasoductof20"Øx2.2 km from MP Perdiz 35 to BS Ixachi.
- Heads and ties for 6 new wells.



Service Description: • Expansion and refurbishment of the Cinco Presidentes field production facilities. Construction of injection lines for pneumatic pumping of wells CP 945, 946, and 102.

SPECIALIZED SERVICES

INFRASTRUCTURE WORKS

The development of the activities that are the object of the PJP4 Services business will depend on the contract established with the client and for its execution, it will define the processes that may be subcontracted or carried out with own efforts, specifying in its

moment the activities for their control and monitoring.

Infrastructure Construction, including:

Mechanical work, electrical piping and instruments under the responsibility of the Infrastructure Project Management





He Compliance and Legal Compliance, allow Regulatory authorities, communities and public The opinion to verify the standards with which the production area operates, generating trust in management



The Evaluations and audits of conformity contemplates:

- Engineering
- Crude Oil and Gas Handling, Distribution, Storage and Export Systems.
- Change Management • Electrical Systems • Mechanical Systems • Safety Systems • Instrumentation and Control • Inspection and Maintenance • Safety, Hygiene and Environment
- Production Operations

SPECIALIZED SERVICES

ASSESSMENT DISAGREEMENT

AND OPERATIONAL CONDITION AUDITS

Conformity Assessment is a service whose results allow the Operator to determine the capacity of its management systems to comply with legal, contractual and strategic requirements from all angles applicable to the company.

The Service Condition Audit complements the Evaluation of Compliance through a physical integrity assessment understandable facilities, processes and management systems operational areas



SYSTEM OF INTEGRATED MANAGEMENT

To ensure effective Safety, Occupational Health, Environment, and Quality (SSAC) management, PJP4 has developed an Integrated Management Model based on a process approach, in compliance with ISO 45001, ISO 14001, and ISO 9001 standards, for the detection and correction of any conditions that could affect project performance, focusing its efforts on customer satisfaction, its own needs, and legal requirements.



MANAGEMENT

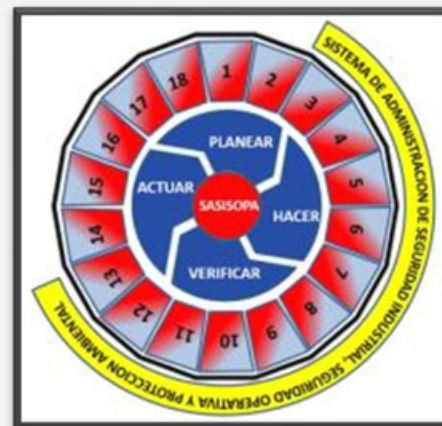
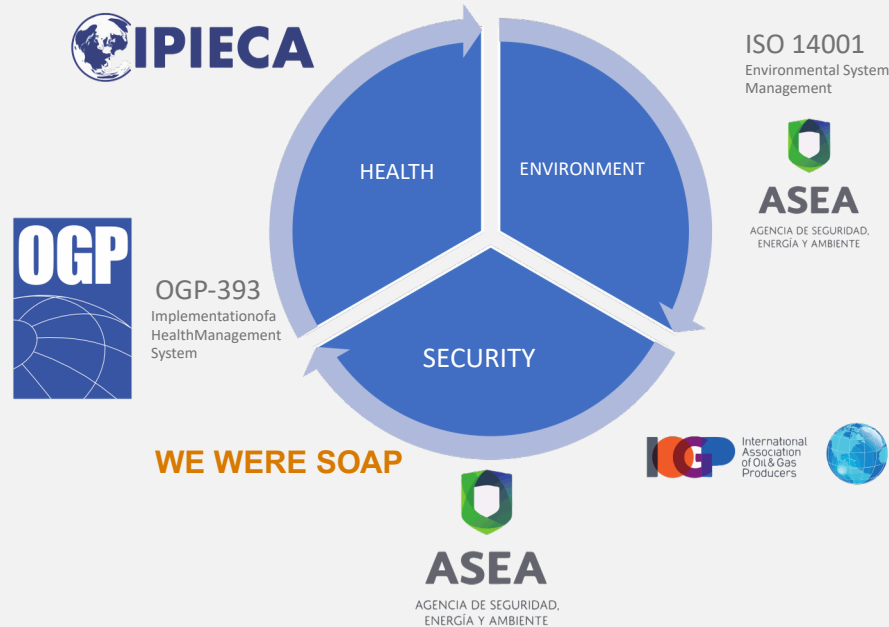
SAFETY, OCCUPATIONAL HEALTH AND ENVIRONMENT

- An adequate World-Class Industrial Safety, Operational Safety and Environmental Protection Management System, hereinafter SASISOPA, can only be achieved by establishing process-oriented management that guarantees the organization's strategic objectives.

Therefore, PJP4 decided to adopt management models

- based on legal and contractual obligations derived from international best practices to evolve toward interrelated processes that enable compliance within the operation, maintenance, engineering and construction, supply, consulting, well service, and oil and gas field exploitation services for the energy sector.
- The SASISOPA of PJP4 is based on cascading processes supported by the application of the 18 elements that govern the matter.

FUNDAMENTALS OF THE MODEL



1. POLICY HAZARD IDENTIFICATION AND RISK ANALYSIS
2. LEGAL REQUIREMENTS GOALS, OBJECTIVES AND INDICATORS
3. ROLES, RESPONSIBILITIES AND AUTHORITY
4. COMPETENCE, TRAINING AND TRAINING COMMUNICATION, PARTICIPATION AND CONSULTATION
5. DOCUMENT AND RECORDS CONTROL
6. BEST PRACTICES AND STANDARDS ACTIVITY CONTROL, START-UPS AND CHANGES
7. MECHANICAL INTEGRITY AND QUALITY ASSURANCE
8. CONTRACTOR SAFETY
9. EMERGENCY PREPAREDNESS AND RESPONSE MONITORING, VERIFICATION AND EVALUATION
10. AUDITS INCIDENT AND ACCIDENT INVESTIGATION
11. REVIEW OF RESULTS PERFORMANCE REPORTS

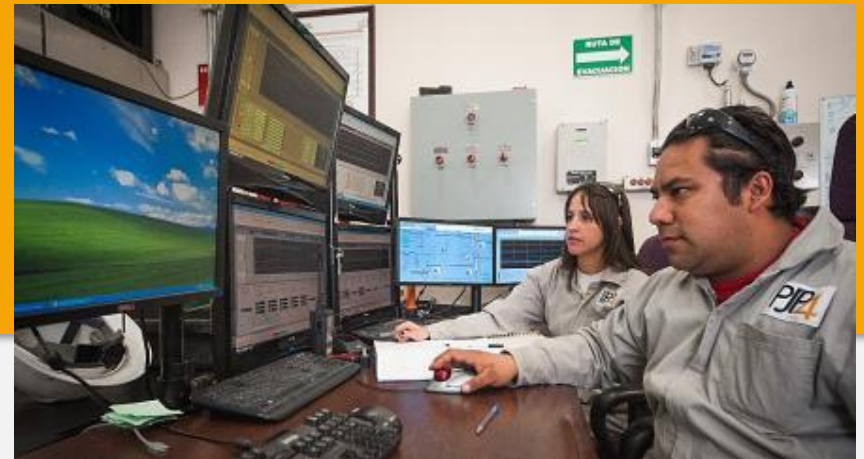
RELIABILITY OF PRODUCTIVE SYSTEMS

The reliability of production systems aims to ensure that the asset portfolio correctly performs a given function in a production process over a given period of time, using the appropriate inputs, procedures, and assets, without executing any abnormal process that could cause the system to lose its intended function or affect its availability.



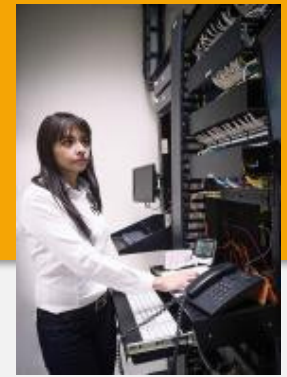
RELIABILITY OF THE PROCESSES

Process reliability includes methodologies that allow determining their performance. It considers the strategic management of policies, processes, procedures and projects, within the framework of the comprehensive management system (ISO 9001, ISO-14000, ISO 45000). To do this, it uses the design of a key performance indicators (KPIs) model.



RELIABILITY HUMAN

Human reliability is one of the core pillars of PJP4's operational reliability model, based on the recognition that individuals, as guarantors of the effective execution of all activities related to operation and maintenance, engineering and construction, and well servicing, are the organization's primary asset. Its principle is to achieve the integration, alignment, and coherence of human capital with the business's strategy, processes, and objectives to achieve organizational and individual success.





PJP4|OGS

Clients



USA

Clients

ACUTE SAFETY LLC
AMSJD, LLC
ANADARKO PETROLEUM CORPORATION
ARGENT ENERGY (US) HOLDINGS INC.
BASIC ENERGY SERVICES
BATTLECAT OIL AND GAS, LLC
BLACK MARLIN ENERGY SERVICES, LLC
BLUESTONE NATURAL RESOURCES
BORDER LEASE SERVICES, INC
CAT DILLEY
CML EXPLORATION LLC
DIMMIT COUNTY SWD
EOG RESOURCES INC.
ESOG CORPORATION
EVERS AND SONS, LLC
GLENCO INC
GULFTEX ENERGY LLC
HIGH SIERRA ENERGY LP
HIGH SIERRA ENERGY LP
KILLAM OIL COMPANY
MALEXOR INC.
PENN TRANSPORT
PENN VIRGINIA CORPORATION
PETROTEC OIL & GAS
R CONSTRUCTION CO.
RAPID FLOW
SELECT ENERGY SERVICES
SILVER EAGLE ENVIRONMENTAL SOLUTIONS LLC
STRATEGIC ENERGY CONSULTING, LLC
TREWAY
TRINITY ENVIRONMANETAL SERVICES, LLC
VIRTEX OPERATING COMPANY, INC.



Argentina

Clients

SIPETROL



México

Clients

BURGOS OIL SERVICES, S.A. DE C.V.
COMPAÑÍA PETROLERA PERSEUS, S.A. DE C.V.
DESARROLLO Y SERVICIO PETROLERO, S.A. DE C.V.
ECOPETROL
GPA ENERGY, S.A. DE C.V.
HALLIBURTON DE MEXICO S. DE R.L. DE C.V.
IBEROAMERICANA DE HIDROCARBUROS CQ
EXPLORACIÓN Y PRODUCCIÓN, S.A. DE C.V.
IBEROAMERICANA DE HIDROCARBUROS, S.A. DE
C.V.
MONCLOVA PIRINEOS GAS, S.A. DE C.V.
NORPOWER, S.A. DE C.V.
OPERACIONES PETROLERAS SOLEDAD S. DE RL.
DE C.V.
PEMEX EXPLORACION Y PRODUCCION
PETROFAC MEXICO, S.A DE C.V.
PTD SERVICIOS MÚLTIPLES, S. DE R.L. DE C.V.
REPSOL EXPLORACIÓN MÉXICO, S.A. DE C.V.
SERVICIOS MÚLTIPLES DE BURGOS, S.A. DE C.V.
STRATA BPS, S.A. DE C.V.
LEWIS ENERGY DE MEXICO S. DE R.L. DE C.V.



Venezuela

Clients

BP VENEZUELA HOLDINGS LIMITED
CARDON IV
CHEVRON TEXACO
CONSORCIO QUIRIQUIRE
CVG ELECTRIFICACIÓN DEL CARONÍ, EDELCA, C.A.
FERTINITRO
MAXUS VENEZUELA, C.I.LTD
PDVSA
PDVSA GAS, S.A.
PDVSA PETRÓLEO
PEQUIVEN
PETROBOSCÁN
PETROBRÁS ENERGÍA VENEZUELA
PETROCEDEÑO
PETROLERA AMERIVEN
PETROQUIRIQUIRE S.A.
PETROZUATA
QUIRIQUIRE GAS S.A.
REPSOL YPF
SINCOR
TOTAL OIL & GAS VENEZUELA



Colombia

Clients

ECOPETROL
IBEROAMERICANA DE HIDROCARBUROS CQ
EXPLORACIÓN Y PRODUCCIÓN, S.A.S.
REPSOL EXPLORACION COLOMBIA



EMPRESA
SOCIALMENTE
RESPONSABLE

Our CLIENTS





PJP4|OGS

Our Commodities Trading desk

We trade
En590, D2, D6,
JA1, JP54, LNG



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PJP4|OGS



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THANK YOU!



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