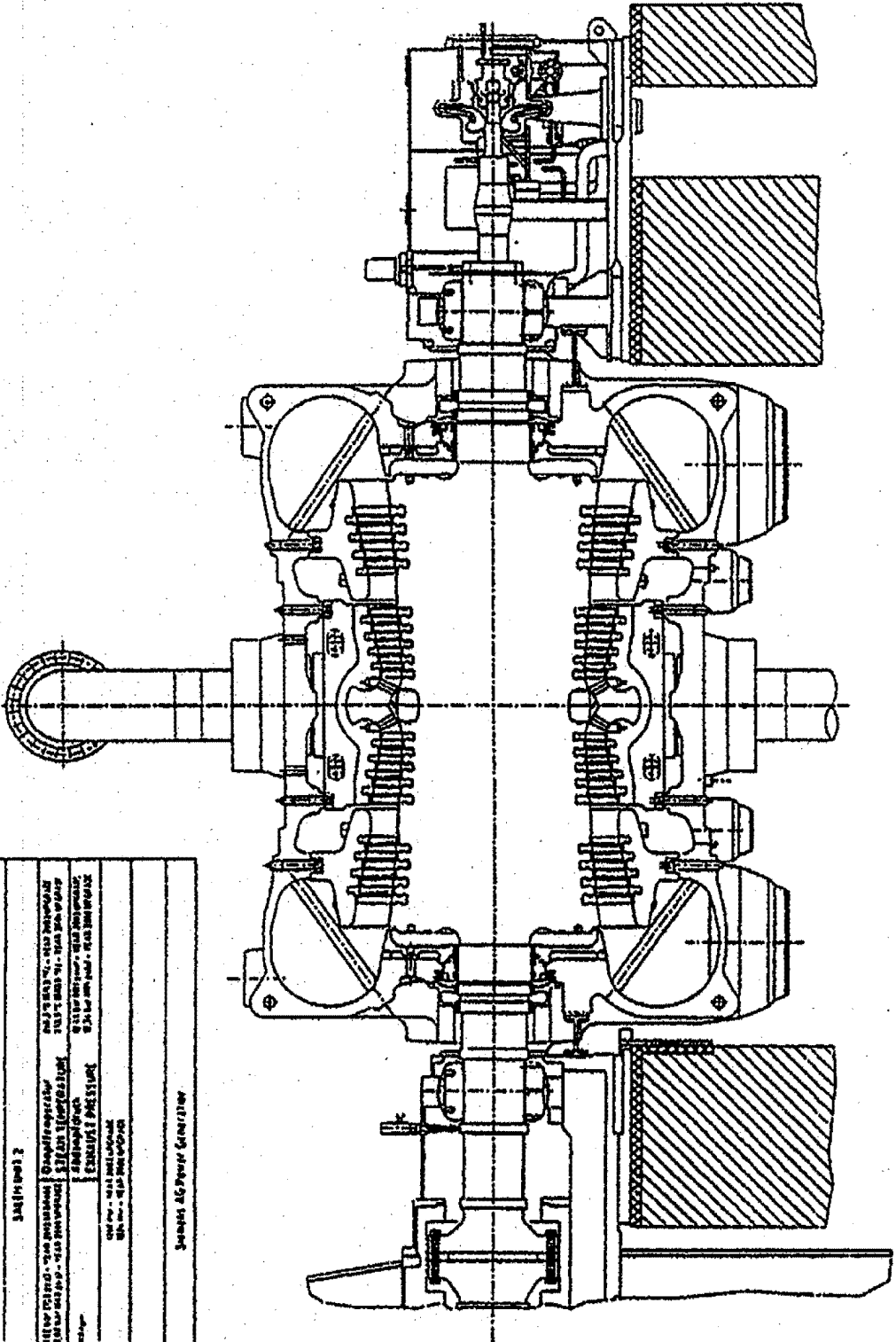


Figure F3.5-1 intentionally deleted.
Refer to plant drawing 204811 in DCRMS

Figure F3.5-2 intentionally deleted.
Refer to plant drawing 232445 in DCRMS

Figure F3.5-3 intentionally deleted.
Refer to plant drawing 232444 in DCRMS

PROJECT		
SALEM NUCLEAR	SALEM UNIT 2	
DESCRIPTION	SALEM NUCLEAR GENERATING STATION	
DESIGNER	SALEM NUCLEAR GENERATING STATION	
DATE	12/6/04	
SCALE	AS SHOWN	
REVISIONS		
NO.	DATE	DESCRIPTION
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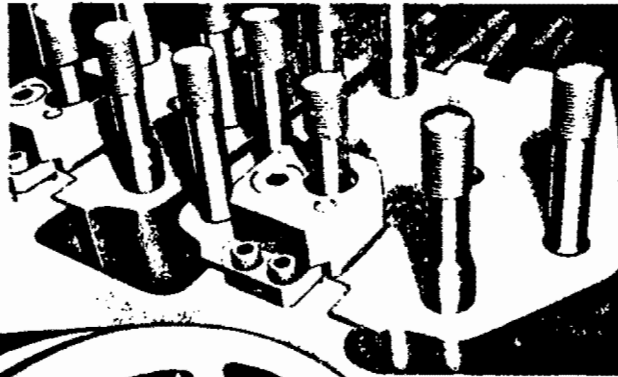
Revision 21, Dec. 6, 2004

PSEG Nuclear, LLC
SALEM NUCLEAR GENERATING STATION

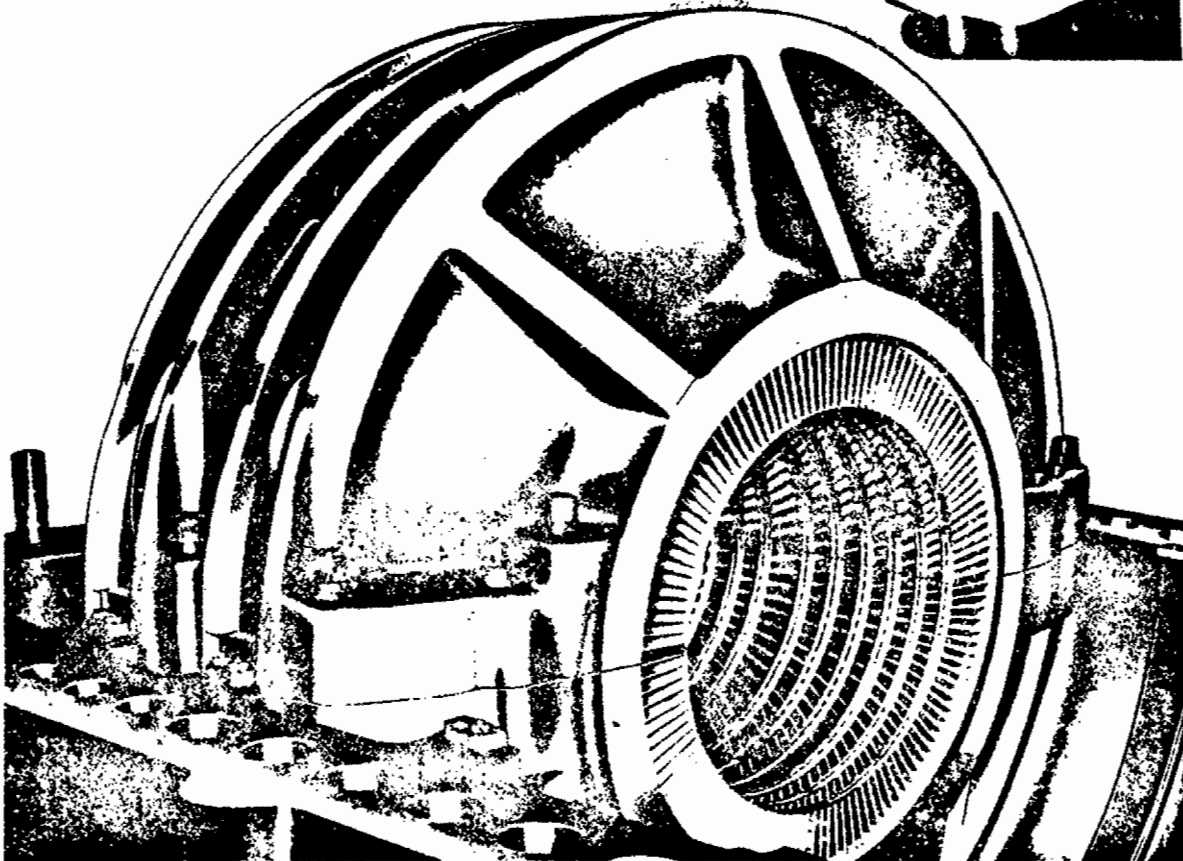
Salem Nuclear Generating Station
HIGH PRESSURE CYLINDER
1800 RPM DOUBLE-FLOW DESIGN

Updated FSAR Figure 3.5-4

View of turbine cylinder and blade ring, showing method of supporting and locking lower blade ring in position.



Blade rings of large high-pressure, high temperature turbine, with stationary blades in place.

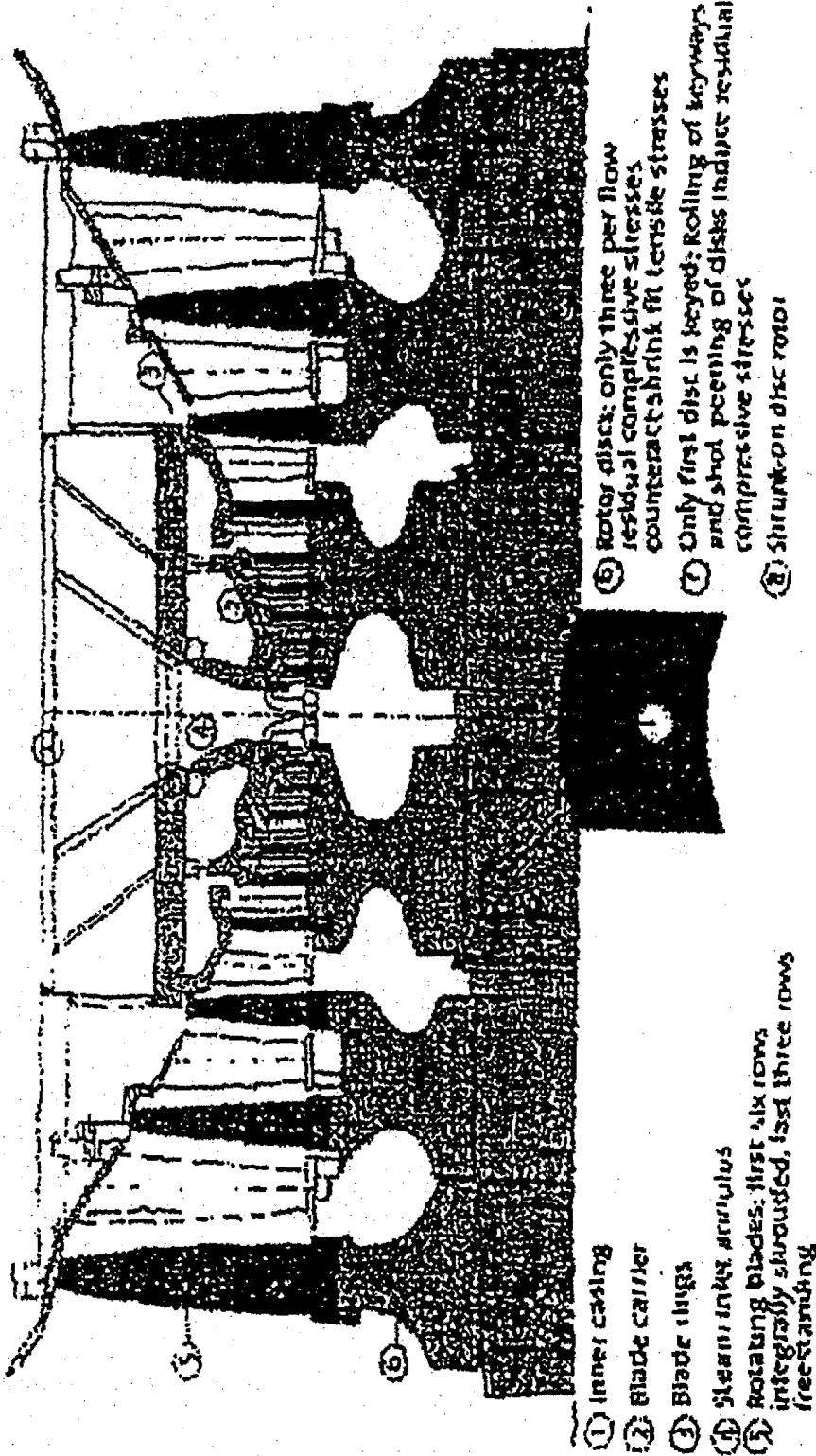


Features

- 1) Centerline supporting block insures center alignment while allowing differential expansion between blade ring and cylinder.
- 2) Blades are inserted in blade ring halves.
- 3) Tongue and groove holds blade ring in position.
- 4) Metallic seals between blade rings and cylinder prevent leakage of steam in support grooves.
- 5) Upper plate, in cylinder cover, prevents any "riding-up" of the blade ring.

REVISION 6
FEBRUARY 15, 1987

LOW PRESSURE TURBINE CROSS SECTION

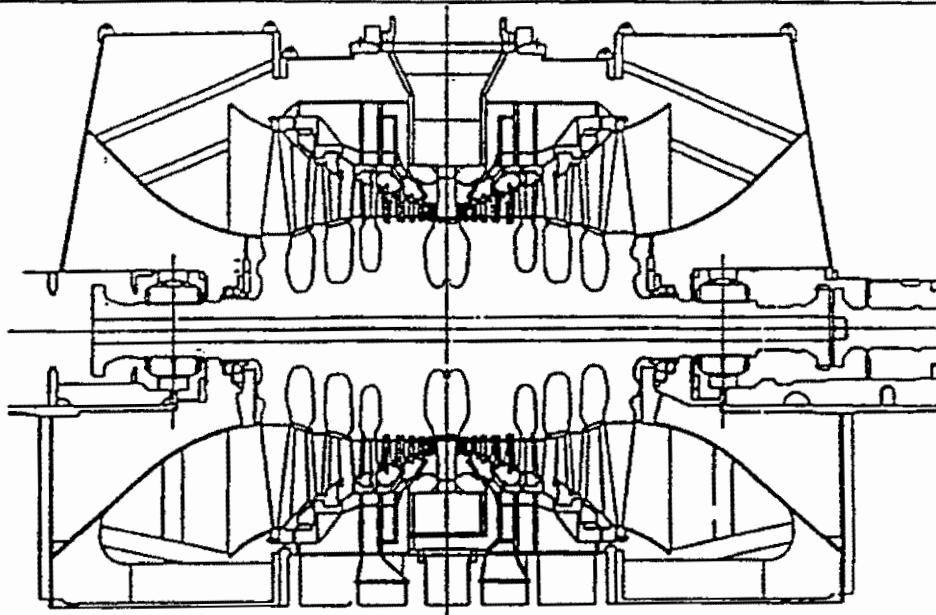


- ① Inner casing
- ② Blade carrier
- ③ Blade rings
- ④ Steam inlet annulus
- ⑤ Rotating blades: first six rows integrally shrouded, last three rows free-standing
- ⑥ Rotor disc: only three per flow residual compressive stresses counteract shrink fit tensile stresses
- ⑦ Only first disc is keyed; rolling of keyways and shot peening of discs induce residual compressive stresses
- ⑧ Shrunk-on disc rotor

Upgraded 6-Disk LP Turbine Rotor with Advanced Flow Path Design

Revision 21, Dec. 6, 2004

<p>PSEG Nuclear, LLC SALEM NUCLEAR GENERATING STATION</p>	<p>Salem Nuclear Generating Station LOW PRESSURE ELEMENT 1800 RPM DOUBLE FLOW DESIGN WITH 46" LAST ROW BLADES Updated FSAR Figure 3.5-6</p>
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Features

- 1) Inner cylinder, supported at the horizontal centerline and fixed transversely at the top and bottom by dowel pins, allows freedom of expansion independent of the outer cylinder.
- 2) Entire outer cylinder is at exhaust steam temperature.
- 3) Exhaust hood of laboratory-proved design minimizes hood loss.
- 4) Provision for extraction zones with moisture removal.
- 5) Inner and outer cylinders of fabricated steel construction with improved one-piece inner cylinder design.
- 6) Elimination of shrouds, rivets, and lashing wires.
- 7) Reduced stress corrosion cracking.
- 8) Reduced high cycle fatigue.
- 9) Heat rate improvement.
- 10) Increased capacity.
- 11) Operation at up to eight (8) inches of backpressure.
- 12) Operation at ± 1.5 Hz off-frequency.
- 13) One piece rotor forging.
- 14) No separate discs.
- 15) Integral couplings.

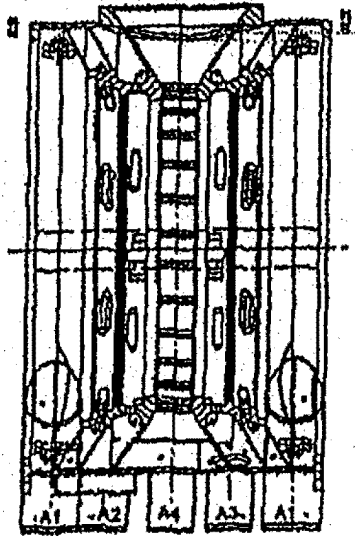
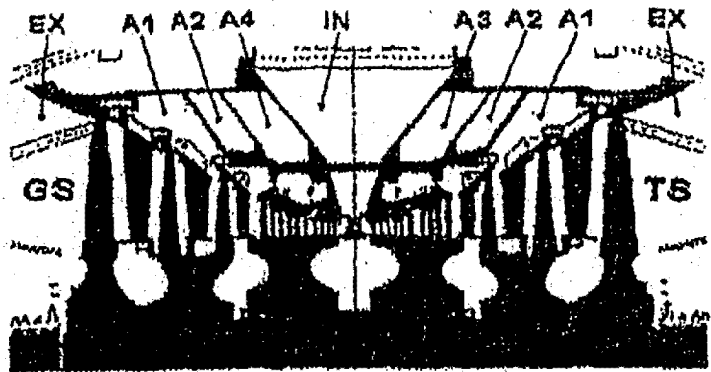
PUBLIC SERVICE ELECTRIC AND GAS COMPANY
SALEM NUCLEAR GENERATING STATION

Unit 2 Low-Pressure Element
1800 RPM Double-Flow Design with 47" Last Row Blades

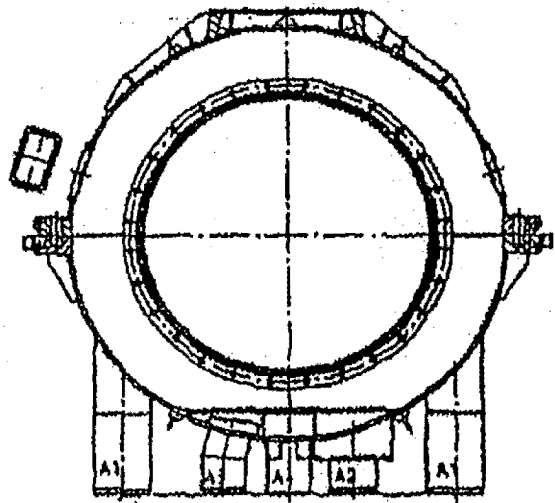
Updated FSAR
Revision 16

Figure 3.5-6A
January 31, 1998

Location		No. of
LP INLET	IN	1
EXTRACTION	A4	1
EXTRACTION	A3	2
EXTRACTION	A2	2
EXTRACTION	A1	4
EXHAUST	EX	2



Section View



End View

Revision 21, Dec. 6, 2004

PSEG Nuclear, LLC
SALEM NUCLEAR GENERATING STATION

Salem Nuclear Generating Station
EXPLODED VIEW OF LOW PRESSURE UNIT

Updated FSAR

Figure 3.5-7