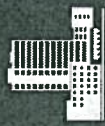


GENERAL INFORMATION

NIIIS as a modern research-and-production complex



Home page



Next



Slide show



Manual slide viewing

FEDERAL AGENCY for ATOMIC ENERGY

FEDERAL STATE UNITARY ENTERPRISE FEDERAL RESEARCH- AND-PRODUCTION CENTER

«MEASURING SYSTEMS RESEARCH INSTITUTE

named after Yu. Ye. Sedakov»



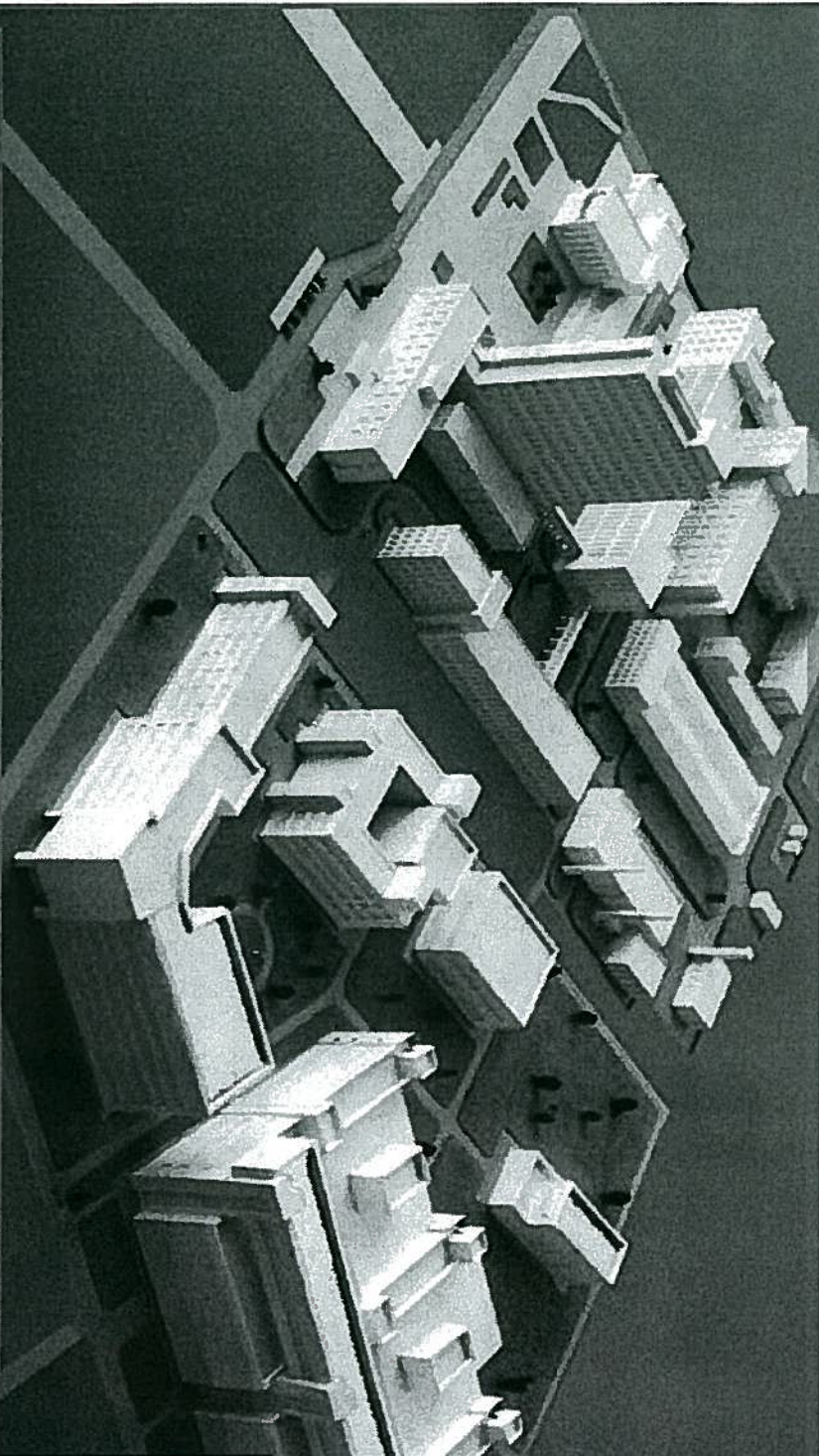
FEDERAL STATE UNITARY ENTERPRISE FRPC «MEASURING SYSTEMS RESEARCH INSTITUTE named after Yu. Ye. Sedakov»



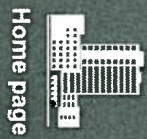
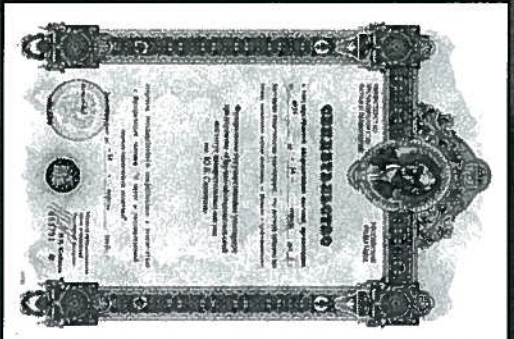
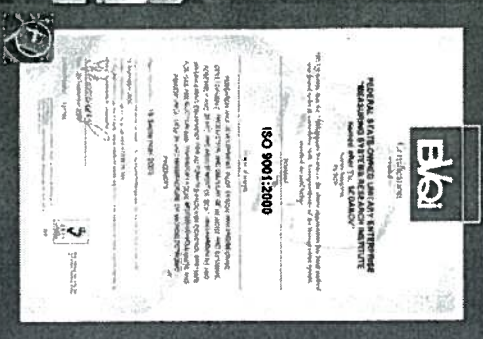
GENERAL INFORMATION

NIIS as a modern research-and-production complex

NIIS IS A MODERN RESEARCH-AND-PRODUCTION COMPLEX



- **OVERALL AREA** – 25 hectares
- **BUILDINGS** – 141 000 m²
- **BASIC ASSETS** – 1589 mln. rbl.



Home page



To the beginning



Previous



Next



Slide show



Manual slide viewing



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PRODUCTION

Soft-and-hardware devices and complexes of upper level control systems of APCS NPP of new generation



Home page



ПРОГРАММНО-ТЕХНИЧЕСКИЕ СРЕДСТВА АВТОМАТИЗИРОВАННЫХ СИСТЕМ УПРАВЛЕНИЯ
ТЕХНОЛОГИЧЕСКИМИ ПРОЦЕССАМИ АТОМНЫХ ЭЛЕКТРОСТАНЦИЙ

SOFT-AND-HARDWARE DEVICES AND COMPLEXES OF UPPER LEVEL CONTROL SYSTEMS FOR APCS NPP OF NEW GENERATION



Next



Slide show



Manual slide
viewing



PRODUCTION

Soft-and-hardware devices and complexes of upper level control systems of APCSS NPP of new generation



Home page



To the beginning



Previous



Next



Slide show



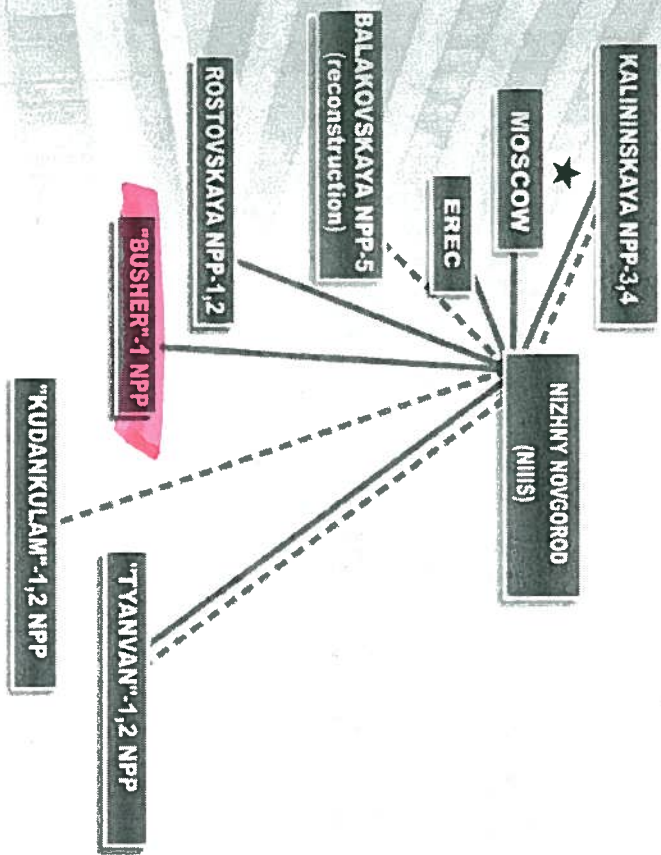
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НИИС

ПРОГРАММНО-ТЕХНИЧЕСКИЕ СРЕДСТВА АВТОМАТИЗИРОВАННЫХ СИСТЕМ УПРАВЛЕНИЯ ТЕХНОЛОГИЧЕСКИМИ ПРОЦЕССАМИ АТОМНЫХ ЭЛЕКТРОСТАНЦИЙ

INFORMATION-AND-CONTROL REAL-TIME SYSTEMS FOR NUCLEAR POWER PLANTS



GEOGRAPHY OF NIIS WORKS

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NUCLEAR POWER PLANTS
TOP LEVEL SYSTEM OF THE NUCLEAR POWER PLANT

POWER UNIT

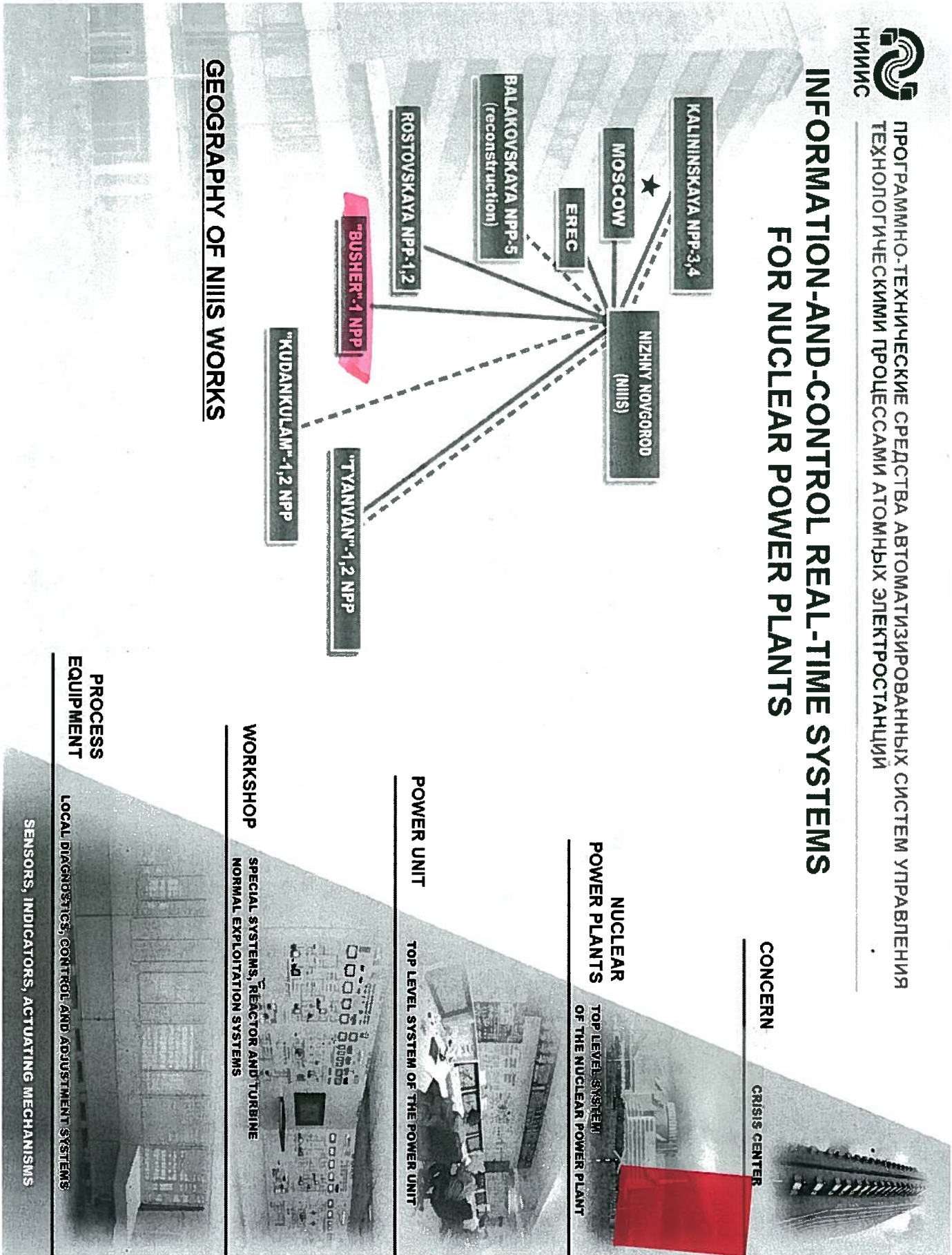
TOP LEVEL SYSTEM OF THE POWER UNIT

WORKSHOP
SPECIAL SYSTEMS, REACTOR AND TURBINE
NORMAL EXPLOITATION SYSTEMS

PROCESS EQUIPMENT

LOCAL DIAGNOSTICS, CONTROL AND ADJUSTMENT SYSTEMS

SENSORS, INDICATORS, ACTUATING MECHANISMS





PRODUCTION

Soft-and-hardware devices and complexes of upper level control systems of APCS NPP of new generation



Home page



To the beginning



Previous



Next



Slide show



Manual slide viewing

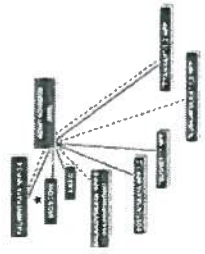


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ТЕХНОЛОГИЧЕСКИМИ ПРОЦЕССАМИ АТОМНЫХ ЭЛЕКТРОСТАНЦИЙ

AUTOMATED PROCESS CONTROL SYSTEMS OF NEW GENERATION



- Computer-based power unit control
- Fiber-optic technology of information transmission
- Invariance to operating systems (Linux, OpenVMS etc.)
- Supply of soft-and-hardware complexes prepared by the manufacturer to the maximum



CONCERN



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NUCLEAR
POWER PLANTS



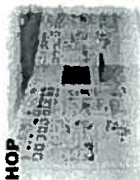
TOP LEVEL
SYSTEM
OF THE NUCLEAR POWER PLANT

POWER UNIT



TOP LEVEL
SYSTEM OF THE POWER UNIT

WORKSHOP



SPECIAL
SYSTEMS, REACTOR AND TURBINE
NORMAL EXPLOITATION SYSTEMS

PROCESS
EQUIPMENT



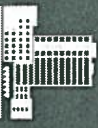
LOCAL
DIAGNOSTICS,
CONTROL
AND ADJUSTMENT SYSTEMS

SENSORS, INDICATORS,
ACTUATING MECHANISMS



PRODUCTION

Soft-and-hardware devices and complexes of upper level control systems of APCSS NPP of new generation



Home page



To the beginning



Previous



Next



Slide show

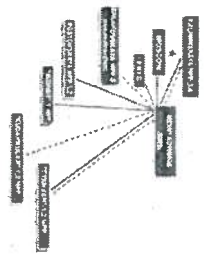
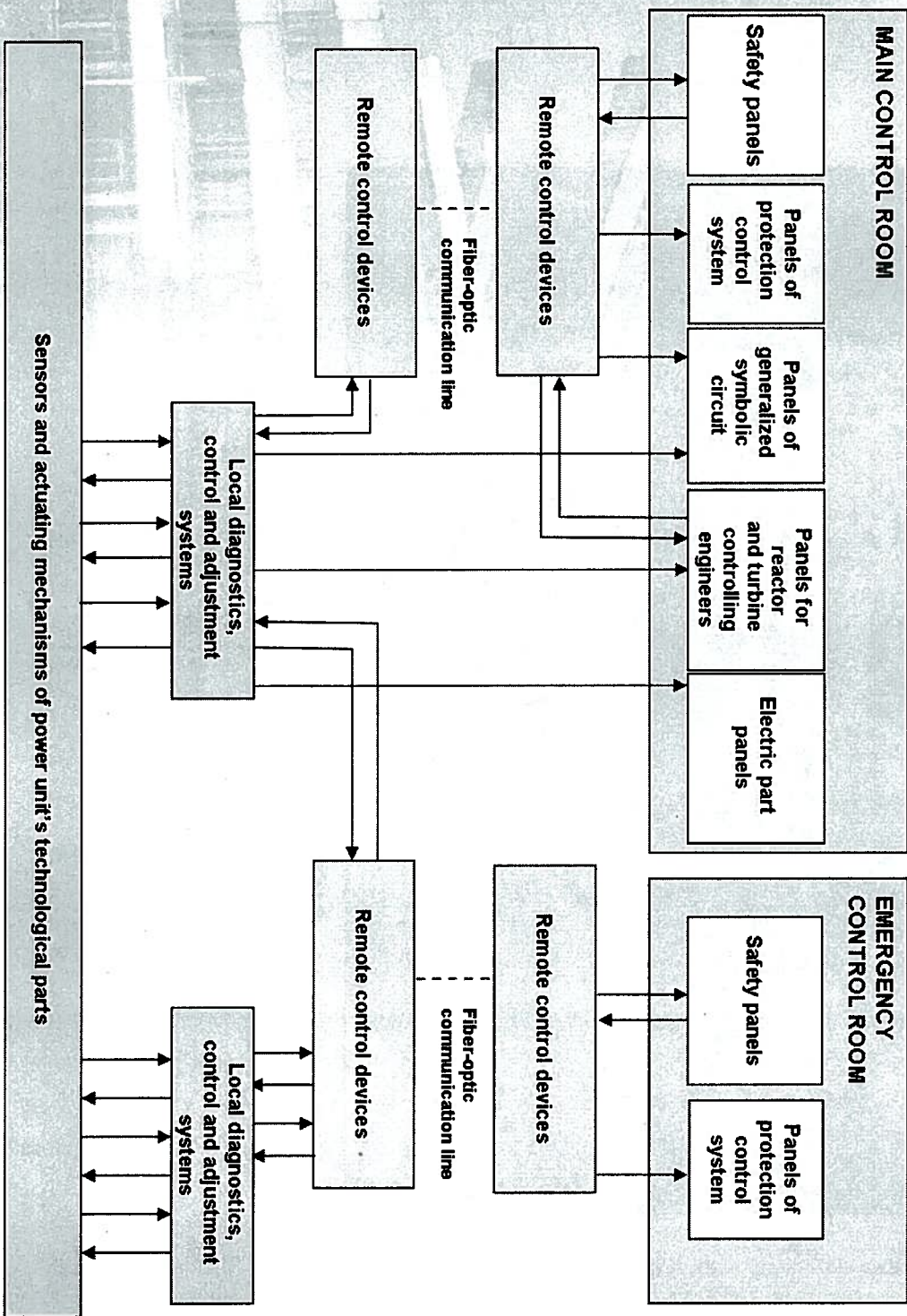


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ПРОГРАММНО-ТЕХНИЧЕСКИЕ СРЕДСТВА АВТОМАТИЗИРОВАННЫХ СИСТЕМ УПРАВЛЕНИЯ
ТЕХНОЛОГИЧЕСКИМИ ПРОЦЕССАМИ АТОМНЫХ ЭЛЕКТРОСТАНЦИЙ

BLOCK DIAGRAM OF OPERATIVE DISPATCHING DEVICES



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NUCLEAR POWER PLANTS

TOP LEVEL SYSTEM OF THE NUCLEAR POWER PLANT

POWER UNIT

TOP LEVEL SYSTEM OF THE POWER UNIT

WORKSHOP

SPECIAL SYSTEMS, REACTOR AND TURBINE NORMAL EXPLOITATION SYSTEMS

PROCESS EQUIPMENT

LOCAL DIAGNOSTICS, CONTROL AND ADJUSTMENT SYSTEMS

SENSORS, INDICATORS, ACTUATING MECHANISMS



PRODUCTION

Soft-and-hardware devices and complexes of upper level control systems of APCs NPP of new generation



Home page



To the beginning



Previous



Next



Slide show

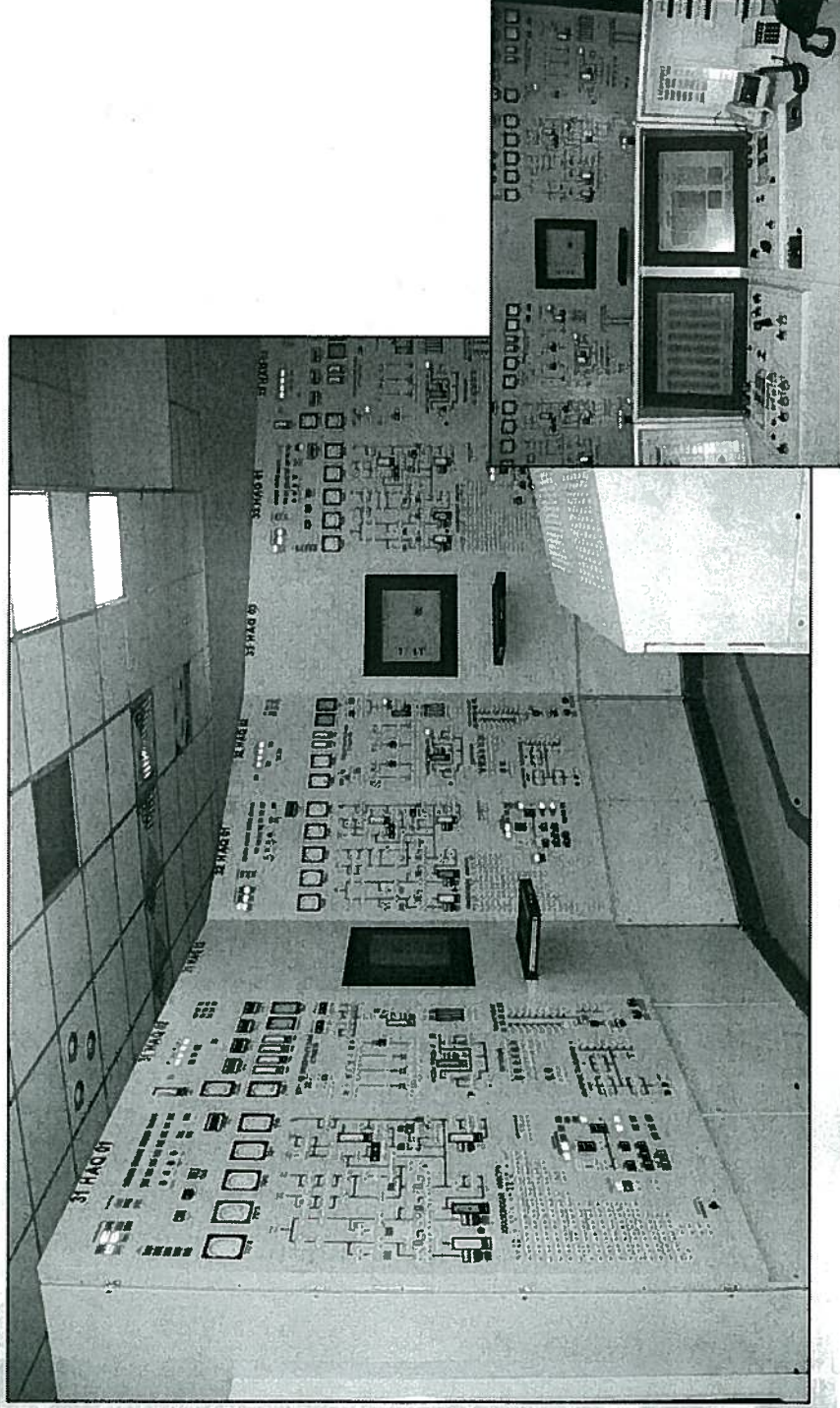


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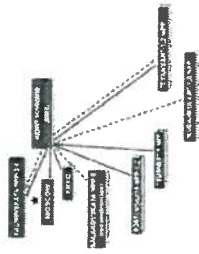


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ТЕХНОЛОГИЧЕСКИМИ ПРОЦЕССАМИ АТОМНЫХ ЭЛЕКТРОСТАНЦИЙ

HARDWARE OF POWER UNIT OPERATIVE DISPATCHING



- Direct remote control and power unit control during abnormal operating mode
- Possibility of fast reconfiguration of technological mimic circuits of mosaic panels



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NUCLEAR POWER PLANTS



TOP LEVEL SYSTEM OF THE NUCLEAR POWER PLANT

POWER UNIT



TOP LEVEL SYSTEM OF THE POWER UNIT

WORKSHOP



SPECIAL SYSTEMS, REACTOR AND TURBINE NORMAL EXPLOITATION SYSTEMS

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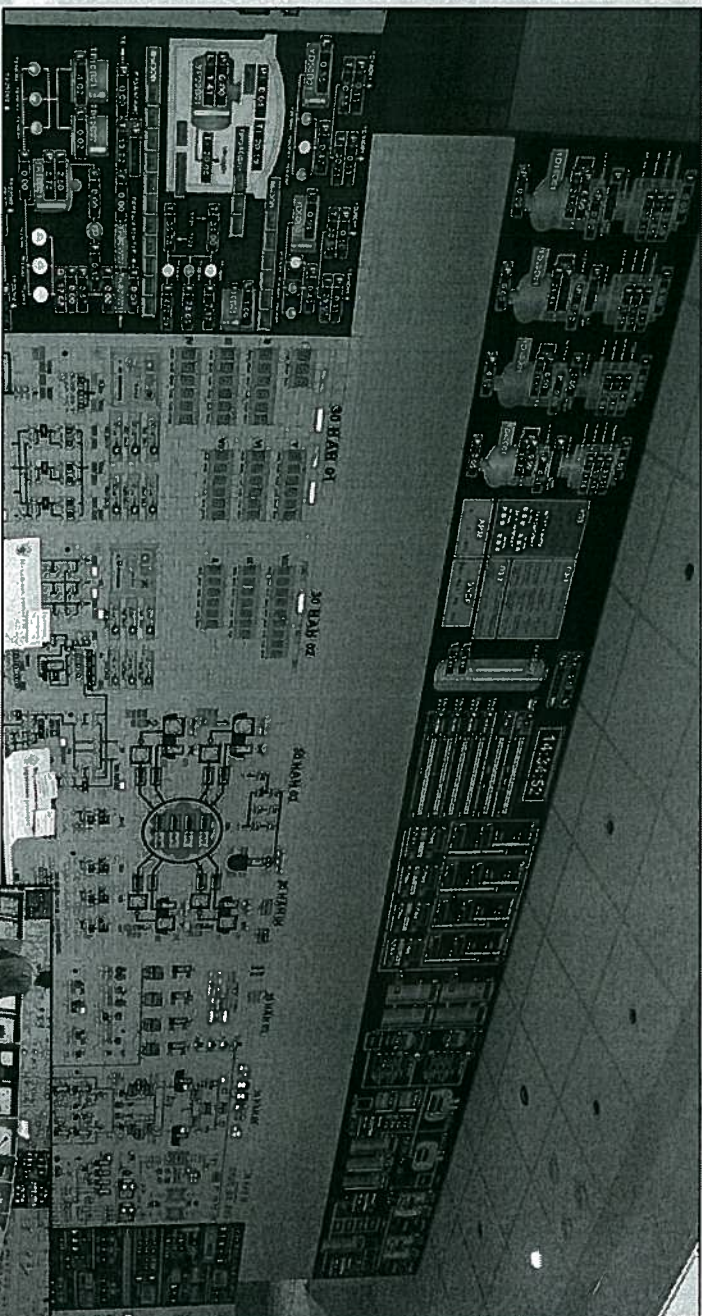


Soft-and-hardware devices and complexes of upper level control systems of APCSS NPP of new generation

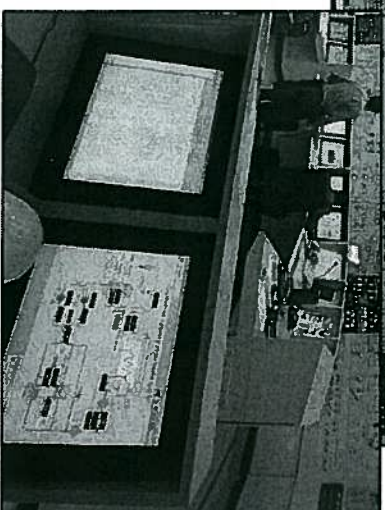


ПРОГРАММНО-ТЕХНИЧЕСКИЕ СРЕДСТВА АВТОМАТИЗИРОВАННЫХ СИСТЕМ УПРАВЛЕНИЯ
ТЕХНОЛОГИЧЕСКИМИ ПРОЦЕССАМИ АТОМНЫХ ЭЛЕКТРОСТАНЦИЙ

INFORMATION DISPLAYING SYSTEMS



- Display panel for common use
- Mosaic mimic panels
- Displays of operators' automated workplaces



Home page

To the beginning



Previous



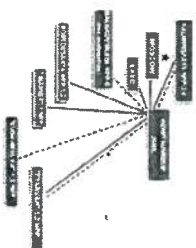
Next



Slide show



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NUCLEAR POWER PLANTS



POWER UNIT

TOP LEVEL SYSTEM OF THE POWER UNIT



WORKSHOP



SPECIAL SYSTEMS, REACTOR AND TURBINE NORMAL EXPLOITATION SYSTEMS

PROCESS EQUIPMENT



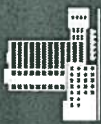
LOCAL DIAGNOSTICS CONTROL AND ADJUSTMENT SYSTEMS

SENSORS, INDICATORS, ACTUATING MECHANISMS



PRODUCTION

Soft-and-hardware devices and complexes of upper level control systems of APCS NPP of new generation



Home page



To the beginning



Previous



Next



Slide show



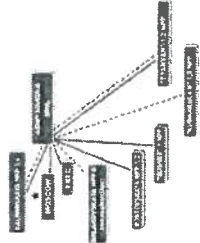
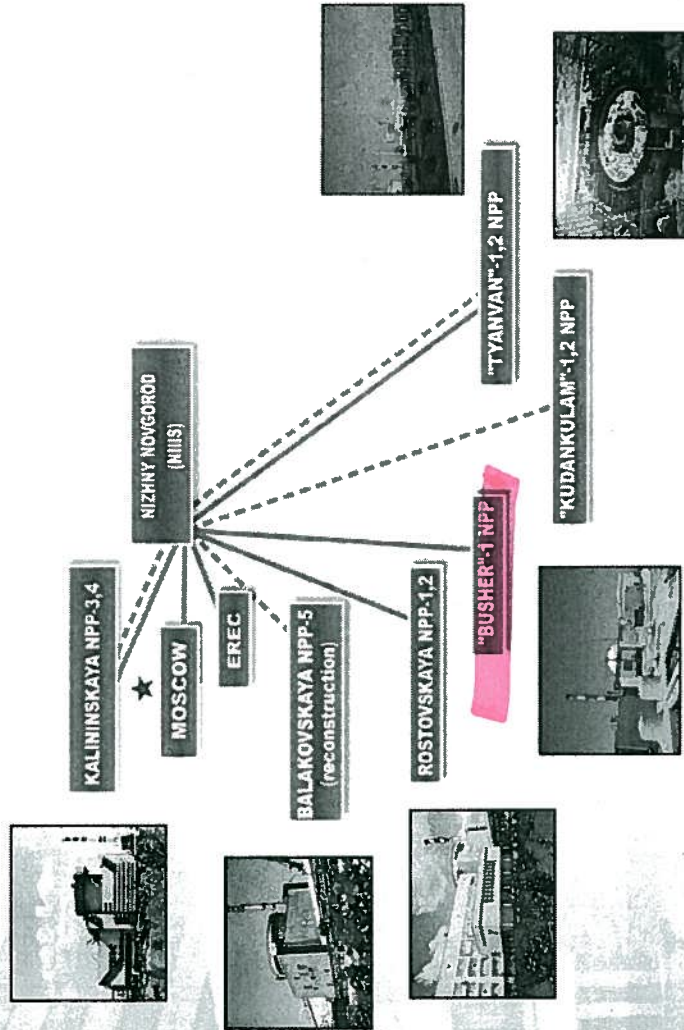
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ПРОГРАММНО-ТЕХНИЧЕСКИЕ СРЕДСТВА АВТОМАТИЗИРОВАННЫХ СИСТЕМ УПРАВЛЕНИЯ
ТЕХНОЛОГИЧЕСКИМИ ПРОЦЕССАМИ АТОМНЫХ ЭЛЕКТРОСТАНЦИЙ

BASIC VIEW OF AUTOMATED PROCESS CONTROL SYSTEM

- Worked through at №3 Kalininskaya NPP power unit
- Is used for development of APCS NPP «Kudankulam-1,2»
- Can be used in new prospective projects



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TOP LEVEL SYSTEM OF THE NUCLEAR POWER PLANT

POWER UNIT

TOP LEVEL SYSTEM OF THE POWER UNIT

WORKSHOP

SPECIAL SYSTEMS, REACTOR AND TURBINE NORMAL EXPLOITATION SYSTEMS

PROCESS EQUIPMENT

LOCAL DIAGNOSTICS, CONTROL AND ADJUSTMENT SYSTEMS

SENSORS, INDICATORS, ACTUATING MECHANISMS



PRODUCTION

Soft-and-hardware devices and complexes of upper level control systems of APGS NPP of new generation



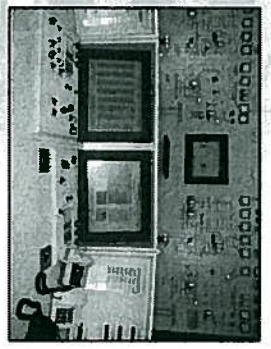
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ТЕХНОЛОГИЧЕСКИМИ ПРОЦЕССАМИ АТОМНЫХ ЭЛЕКТРОСТАНЦИЙ

SECURITY AT NUCLEAR POWER PLANT

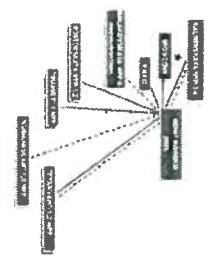
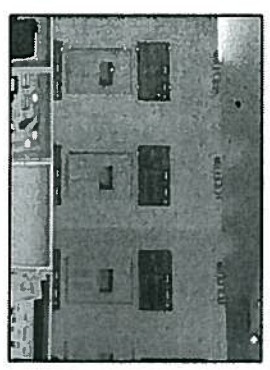
- Control and indication of security systems with high speed of information transmission



- Complete reservation of digital control and measuring channels



- Seismic resistance up to 9 points Richter scale



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POWER UNIT

TOP LEVEL SYSTEM OF THE POWER UNIT

WORKSHOP

SPECIAL SYSTEM, REACTOR AND TURBINE NORMAL EXPLOITATION SYSTEMS

PROCESS EQUIPMENT

LOCAL DIAGNOSTICS CONTROL AND ADJUSTMENT SYSTEMS

SENSORS, INDICATORS, ACTUATING MECHANISMS



Home page



To the beginning



Previous



Next



Slide show

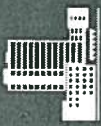


Manual slide viewing



GENERAL INFORMATION

 NIIIS as a modern research-and-production complex



Home page



To the beginning



Previous



Next

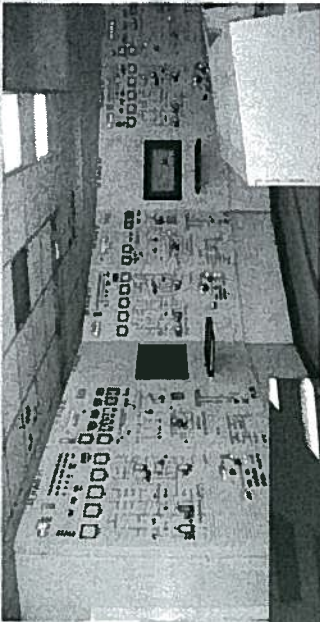
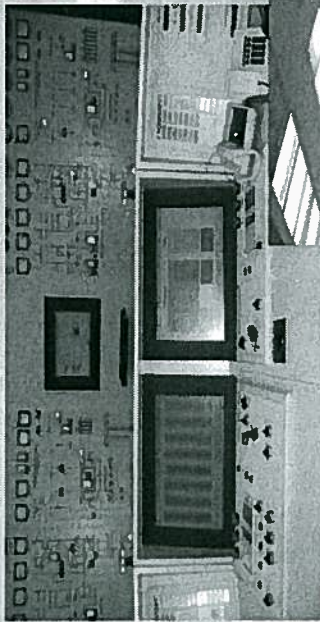
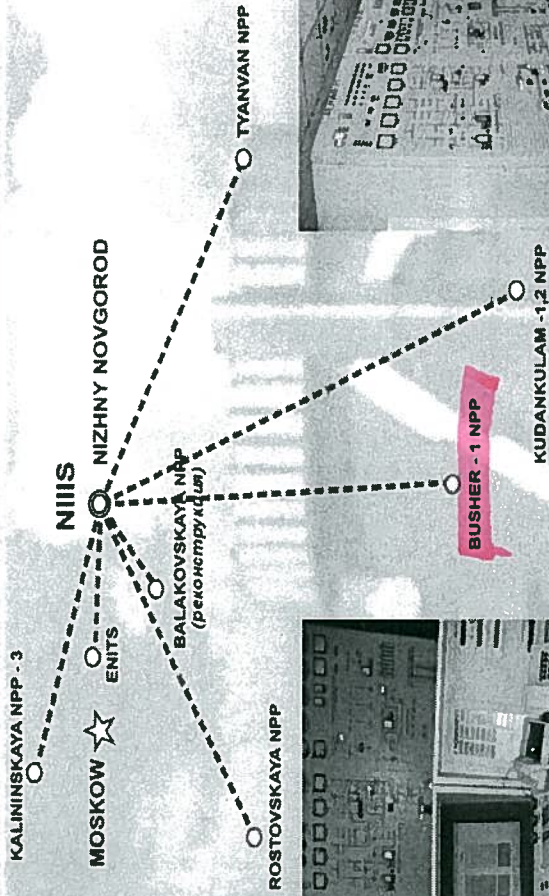


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NIIIS PRODUCTS FOR ATOMIC ENERGY



NEW GENERATION AUTOMATED CONTROL SYSTEM



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GENERAL INFORMATION

■ NIIIS as a modern research-and-production complex

AUTOMATION OF POWER INDUSTRY



Home page



To the beginning



Previous



Next



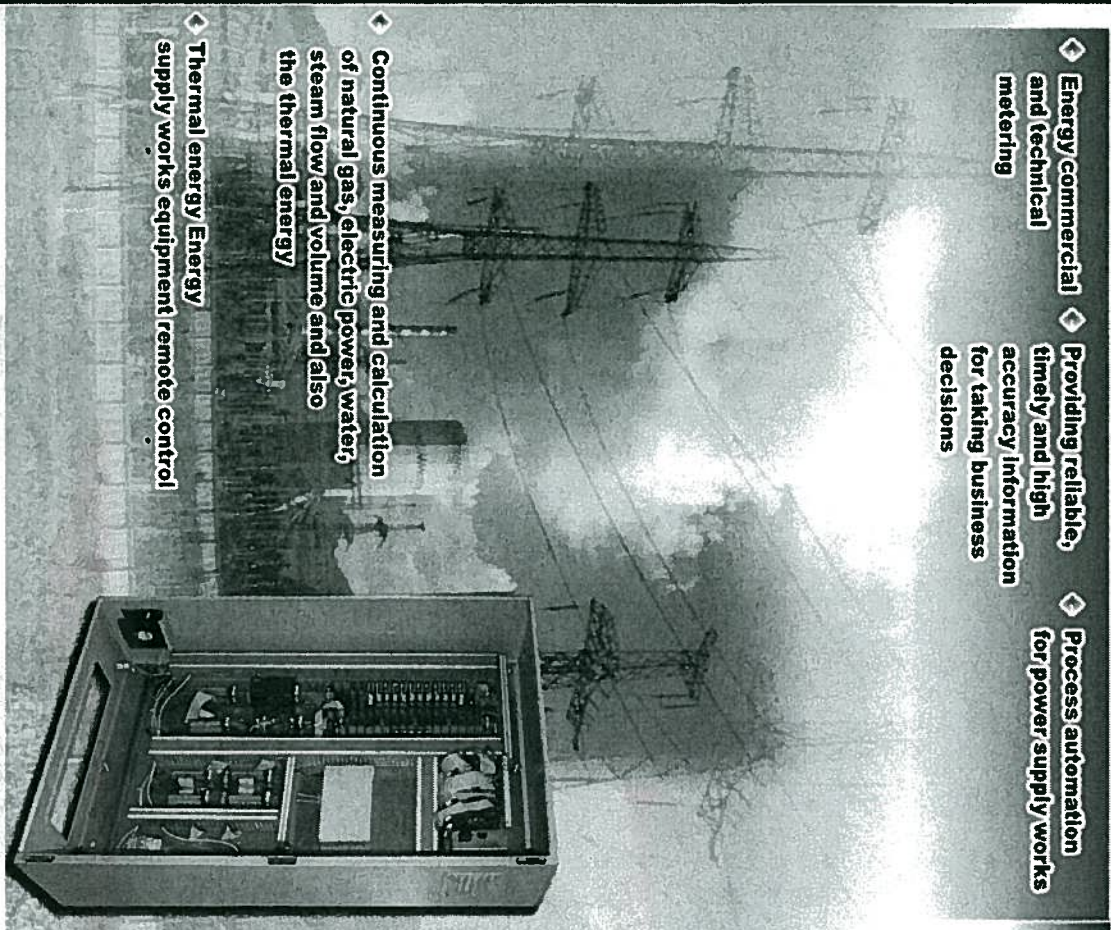
Slide show



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- ◊ Energy commercial and technical metering
- ◊ Providing reliable, timely and high accuracy information for taking business decisions
- ◊ Process automation for power supply works

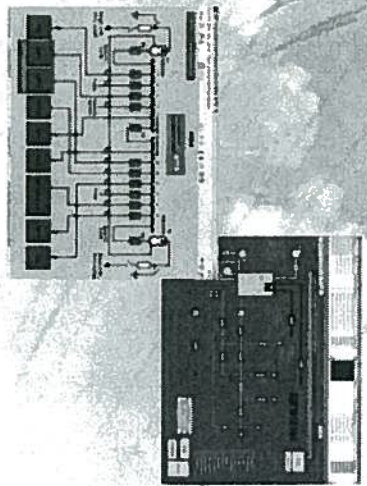
- ◊ Continuous measuring and calculation of natural gas, electric power, water, steam flow and volume and also the thermal energy
- ◊ Thermal energy Energy supply works equipment remote control



AUTOMATION OBJECT

- ◊ Auxiliary electric power stations
- ◊ Distribution facilities
- ◊ Complete transformer stations
- ◊ Emergency diesel power stations
- ◊ Electric mains
- ◊ Heat supply works
- ◊ Water supply works
- ◊ Water drain works

Energy supply monitoring and control system



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