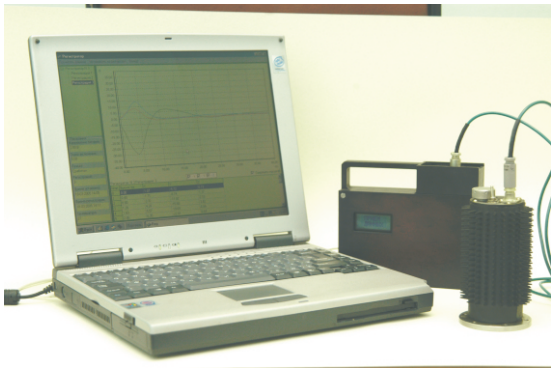
# AUTONOMOUS SYSTEM FOR REGISTRATION OF NON-REGULATED TRANSFER OVERLOADS

РФЯЦ ВНИИЭФ

The system **is to control** vibroimpact modes, characteristic of the containers, assigned for transportation of nuclear fuel, and **is also applicable** during transportation of specially hazardous or valuable cargo. The system provides rapid estimation of the current state of the object under control



Special software-hardware complex was developed for processing, visualization and storage of the data, describing the parameters of transfer overloads

## Basic technical features

**Recorder ARP1**

Operating level (with step 1), $m/s^2$ ..... 20–950
Changes in vibration acceleration parameters:
amplitude, $m/s^2$ ..... not more than 950
duration, s ..... not more than 0,18
Total error, % ..... not more than 30
Range of operational frequencies, Hz ..... 20–500
Operational temperature, °C ..... from –40 to +70
Volume of data stored in nonvolatile memory, Kbyte ..... 8
Supply voltage, V ..... 2,7–3,5
Weight, kg ..... 0,8
Dimensions, mm ..... Ø66,7 132

**Interrogator APO1**

Built-in self-checking unit ..... present
Sequential polling of ARP1 recorders ..... up to 40
Indicator ..... LCD
Volume of data stored in nonvolatile memory, Kbyte ..... 256
Interface to PC ..... RS-232C
Supply voltage, V ..... 5
Weight, kg ..... not more than 8
Dimensions, mm ..... 150 130 40

Patented in the RF
Certified by the RF Gosstandart and included into the State Register of measuring devices

The system can be adapted to the customers requirements, including: development of methods to estimate the controllable states, specification of the criteria for the controllable object, identification and substantiation of the reasonable spots for allocation of the recorders, identification of correlation dependencies between operational levels of ARP1 and the requirements specified in the criteria

Contact information:
tel.: (83130) 2-87-72
fax: (83130) 4-59-60
e-mail: morenko@vniief.ru