



## I&C SYSTEMS AND SOLUTIONS REFERENCE LIST

Equipment Installed	Nuclear Power Plant	# of Installed Units	Date
Reactor Trip System	<ul style="list-style-type: none"> <li>◆ Zaporizhzhia NPP</li> <li>◆ South-Ukraine NPP</li> <li>◆ Rivne NPP</li> <li>◆ Khmelnytsky NPP</li> </ul>	30	2004 - 2015
Engineered Safety Features Actuation System	<ul style="list-style-type: none"> <li>◆ South-Ukraine NPP</li> <li>◆ Rivne NPP</li> <li>◆ Kozloduy NPP, Bulgaria</li> <li>◆ Khmelnytsky NPP</li> </ul>	27	2005 - 2021
Reactor Power Control and Limitation System	<ul style="list-style-type: none"> <li>◆ Zaporizhzhia NPP</li> <li>◆ South-Ukraine NPP</li> <li>◆ Rivne NPP</li> <li>◆ Khmelnytsky NPP</li> </ul>	15	2004 - 2021
Printed Circuit Boards for Rod Ready Indicator Chassis	<ul style="list-style-type: none"> <li>◆ Pickering NPP, OPG, Canada</li> </ul>	56	2014
Rod Control System	<ul style="list-style-type: none"> <li>◆ South-Ukraine NPP</li> </ul>	1	2013
Nuclear Island I&C Instrumentation System	<ul style="list-style-type: none"> <li>◆ South-Ukraine NPP</li> <li>◆ Rivne NPP</li> <li>◆ Khmelnytsky NPP</li> </ul>	7	2011 - 2019
Conventional Island Control System	<ul style="list-style-type: none"> <li>◆ South-Ukraine NPP</li> <li>◆ Rivne NPP</li> <li>◆ Khmelnytsky NPP</li> </ul>	6	2011 - 2020
UKTS-Based Reactor and Turbine Control System	<ul style="list-style-type: none"> <li>◆ Rivne NPP</li> <li>◆ Zaporizhzhia NPP</li> </ul>	15	1998 - 2004
Fire Alarm System	<ul style="list-style-type: none"> <li>◆ Zaporizhzhia NPP</li> <li>◆ South-Ukraine NPP</li> <li>◆ Rivne NPP</li> </ul>	18	2008 - 2020
Neutron Flux Monitoring System (in trial operation)	<ul style="list-style-type: none"> <li>◆ South-Ukraine NPP</li> <li>◆ Rivne NPP</li> </ul>	2	2016
Reactor Trip Breakers	<ul style="list-style-type: none"> <li>◆ Zaporizhzhia NPP</li> <li>◆ Rivne NPP</li> <li>◆ Kozloduy NPP, Bulgaria</li> <li>◆ South-Ukraine NPP</li> </ul>	9	2007 - 2020
Switchgears Cabinets	<ul style="list-style-type: none"> <li>◆ Khmelnytsky NPP</li> <li>◆ Zaporizhzhia NPP</li> <li>◆ Rivne NPP</li> <li>◆ South-Ukraine NPP</li> <li>◆ Kozloduy NPP, Bulgaria</li> </ul>	3720	2006 - 2021
I&C Systems for Research Reactor	<ul style="list-style-type: none"> <li>◆ Nuclear Research Institute</li> </ul>	1	2006

Equipment Installed	Nuclear Power Plant	# of Installed Units	Date
Seismic Sensors	<ul style="list-style-type: none"> <li>◆ Khmelnitsky NPP</li> <li>◆ Zaporizhzhia NPP</li> <li>◆ South-Ukraine NPP</li> <li>◆ Rivne NPP</li> </ul>	87	2010 - 2021
Primary Heat Transfer Pump Motor Speed Measuring Devices	◆ Embalse NPP, Argentina	12	2014
MCR and SCA Window Annunciators	◆ Embalse NPP, Argentina	1	2014
Vibration Measuring System for Seismic Sensors Calibration	<ul style="list-style-type: none"> <li>◆ South-Ukraine NPP</li> <li>◆ Rivne NPP</li> <li>◆ Khmelnitsky NPP</li> <li>◆ Zaporizhzhia NPP</li> </ul>	4	2017
DC Distribution System for Transformer Plant	◆ Khmelnitsky NPP	1	2014
I&C System for Thermal Power Plant	◆ Trypilska TPP	1	2015
I&C Test Platform	◆ EDF R&D, Chatou, France	1	2015
Control and Protection System for Research Reactor	◆ IPEN-CNEN Institute, San Paulo, Brazil	1	2016
Transformer Substations	<ul style="list-style-type: none"> <li>◆ Zaporizhzhia NPP</li> <li>◆ South-Ukraine NPP</li> </ul>	20	2015 - 2021
Common Control Room Actuation Panel	◆ Rivne NPP	1	2017
Local Control Panel for Water Heating	◆ Zaporizhzhia NPP	1	2018
Single-Turn Electric Actuators	<ul style="list-style-type: none"> <li>◆ Rivne NPP</li> <li>◆ Khmelnitsky NPP</li> <li>◆ Zaporizhzhia NPP</li> </ul>	64	2016-2021
Relay Protection and Automatic Control Systems	◆ South-Ukraine NPP	33	2020

Research & Production Corporation Radiy  
 29 Akademika Tamma Street,  
 Kropyvnytskyi 25009, Ukraine  
 inter.project@radiy.com  
 www.radiy.com

### 20 Years of Innovation for the Global Nuclear Industry

For more than 20 years Radiy has provided advanced instrumentation and control (I&C) solutions for nuclear power plant modernization and new build projects in the global market. Radiy's main I&C product, the RadICS I&C Platform, was developed specifically for use in nuclear power plants. It is the only FPGA-based I&C platform with a SIL 3 certification in a single channel configuration. Radics, a wholly owned LLC, provides delivery services for the RadICS I&C Platform for international markets to meet local regulatory requirements. Radiy also offers industrial control systems, electrical equipment, and reverse engineering services.