

Outline of Activities for Development of Foreign Human Resources

[ID:1 – 7]

ID	Organization	Project Title	Phase	Objective	Target Level	Period	Location	Major Items	Structure	Language	Objects	Level	Number
1	The University of Tokyo / Nuclear Professional School	IAEA Nuclear Energy Management School	0, I, II	Grow future leaders in newcomer countries mainly in Asia	Leadership in nuclear power politics, administration and technology	18 days	Japan	Nuclear Engineering, Safety, Management, Nuclear Regulations / Nuclear Policy, Nuclear Security and Safeguards	Lecture, Facility Tour, Group Discussion	English	NEPIO, R&D Organizations, Nuclear Power Operators	Advanced	50
2	The University of Tokyo / Nuclear Professional School	Development of English Textbook with video pictures and animations	I, II	Develop world widely clear education material	Development and widespread use of education materials using latest AV technology and motion pictures	2 years	Japan	Nuclear Structural Engineering and Thermal Hydraulics Engineering	Lecture(DVD), e-learning	English	Academics, Nuclear Power Operators	Advanced	—
3	The University of Tokyo / Nuclear Professional School	e-learning system link to IAEA	I, II	Link world standard e-learning system to IAEA and actively use	Precursor of IAEA e-learning Use in screening process of foreign students and trainees to Japan	2 years	Japan, IAEA	Nuclear Technical Engineering	e-learning	English	Academics, Nuclear Power Operators	Advanced	—
4	The University of Tokyo / Nuclear Professional School	Nuclear Textbook in engineering course of UT	I, II	Prepare education materials on nuclear power basics	Series of text books as basis for practical and applied materials	2013/4/1-	Japan	Nuclear Basic Engineering	Editing the text for Nuclear Basic Engineering	English	Academics	Intermediate	Under-graduate 50, Graduate 30
5	Tokai University	Human Resource Development Training for Vietnam Electric Power Group	II	Grow core members of NPP	As candidates of core members of NPP, able to train or advice colleagues and younger members consciously	2 years	Japan	Basic Science, Nuclear Engineering, Operation of Nuclear Power Plant, Fuel Relation, Safety, Public Acceptance	Lecture, Exercise, On the Job Training, Facility Tour	Japanese	Nuclear Power Operators	Intermediate	9
6	Tokyo Institute of Technology (Tokyo Tech) / Global Nuclear Human Resource Development (Hitachi-GE Nuclear Energy)	Nuclear Safety & Reactor Design Course	I	Education in undergraduate and graduate course	Master degree Bachelor degree	2 times (4 days, 3 days)	Each Country	Nuclear Engineering, Planning, Engineering and Construction, Operation of Nuclear Power Plant	Lecture	English	R&D Organizations, Academics	Primary, Intermediate	100 each
7	Tokyo Institute of Technology (Tokyo Tech) / Global Nuclear Human Resource Development (Hitachi-GE Nuclear Energy)	Nuclear Engineering Intensive Course	II	Education in undergraduate and graduate course	Master degree Bachelor degree	3 times (3 days each)	Each Country	Nuclear Engineering, Planning, Engineering and Construction, Operation of Nuclear Power Plant	Lecture	English	R&D Organizations, Academics	Primary, Intermediate	200 each

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ID	Organization	Project Title	Phase	Objective	Target Level	Period	Location	Major Items	Structure	Language	Objects	Level	Number
8	JAIF International Cooperation Center (JICC)	IAEA / JICC / WERC Mentoring Course	0, I, II	Introduction of Japanese latest nuclear technology	To acquire world class latest knowledge on design, fabrication and O&M technology and on safety countermeasures including HRD	12 days	Japan	Nuclear Engineering, Planning, Engineering and Construction, Operation of Nuclear Power Plant, Fuel Relation, Emergency Response, Safety, Environmental Radiation Monitoring, Management, Nuclear Regulations / Nuclear Policy, Public Acceptance	Lecture, Facility Tour, Presentation by Trainees	English (Partly Interpretation)	NEPIO, Regulatory Staff, Nuclear Power Operators	Intermediate	16
9	Japan Atomic Energy Agency (JAEA) / Integrated Support Center for Nuclear Nonproliferation and Nuclear Security (ISCN)	International Training Course on Preventive and Protective Measures Against Insider Threats	0, I, II	HRD Support	Acquisition of knowledge on preventive and protective measures against insider threats	5 days	Japan	Nuclear Security	Lecture, Exercise, On the Job Training	English	NEPIO, Regulatory Staff, R&D Organizations, Academics, Nuclear Power Operators	Adjustable to the requests	36
10	Japan Atomic Energy Agency (JAEA) / Integrated Support Center for Nuclear Nonproliferation and Nuclear Security (ISCN)	SNRIU-ISCN Seminar, "Experiences of Ukraine and Japan: Nuclear Nonproliferation and Overcoming from Accidents"	II	HRD Support	Enhancement for peaceful use of nuclear energy, nuclear nonproliferation and nuclear security	2 days	Each Country	Nuclear Security	Lecture	English, Local Language	NEPIO, Regulatory Staff, R&D Organizations, Academics, Nuclear Power Operators	Adjustable to the requests	110
11	Japan Atomic Energy Agency (JAEA) / Integrated Support Center for Nuclear Nonproliferation and Nuclear Security (ISCN)	Seminar on Peaceful Use of Nuclear Energy and Nuclear Nonproliferation	II	HRD Support	Acquisition of knowledge on physical protection of nuclear material and facilities	2 days	Each Country	Nuclear Security	Lecture	English, Local Language	NEPIO, Regulatory Staff	Adjustable to the requests	24
12	Japan Atomic Energy Agency (JAEA) / Integrated Support Center for Nuclear Nonproliferation and Nuclear Security (ISCN)	Seminar on the Additional Protocol (AP) and Workshop on the Additional Protocol Declarations	I	HRD Support	Acquisition of knowledge on the Additional Protocol (AP) and AP declarations	2 days	Each Country	Safeguards	Lecture, Exercise, On the Job Training, Workshop	English	NEPIO, Regulatory Staff, R&D Organizations, Academics	Adjustable to the requests	37
13	Japan Atomic Energy Agency (JAEA) / Integrated Support Center for Nuclear Nonproliferation and Nuclear Security (ISCN)	Regional Training Course on Security of Radioactive Sources	0, I, II	HRD Support	Acquisition of knowledge on Security of Radioactive Sources	5 days	Japan	Nuclear Security	Lecture, Exercise, On the Job Training	English	NEPIO, Regulatory Staff, R&D Organizations, Academics	Adjustable to the requests	14
14	Japan Atomic Energy Agency (JAEA) / Integrated Support Center for Nuclear Nonproliferation and Nuclear Security (ISCN)	Regional Training Course on the Physical Protection of Nuclear Material and Facilities (RTC)	0, I, II	HRD Support	Acquisition of knowledge on physical protection of nuclear material and facilities	11 days	Japan	Nuclear Security	Lecture, Exercise, On the Job Training, Presentation	English	NEPIO, Regulatory Staff, R&D Organizations, Academics	Adjustable to the requests	27
15	Japan Atomic Energy Agency (JAEA) / Integrated Support Center for Nuclear Nonproliferation and Nuclear Security (ISCN)	Regional Workshop on Nuclear Security Culture in Practice	0, I, II	HRD Support	Fostering of nuclear security culture	5 days	Japan	Nuclear Security	Lecture, Exercise, On the Job Training	English	NEPIO, Regulatory Staff, R&D Organizations, Academics	Adjustable to the requests	22

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ID	Organization	Project Title	Phase	Objective	Target Level	Period	Location	Major Items	Structure	Language	Objects	Level	Number
16	Japan Atomic Energy Agency (JAEA) / Integrated Support Center for Nuclear Nonproliferation and Nuclear Security (ISCN)	International Training Course on State Systems of Accounting for and Control of Nuclear Material (SSAC)	0, I, II	HRD Support	Promotion of fulfilling international standard on domestic accounting	11 days	Japan	Safeguards	Lecture, Exercise, On the Job Training, Facility Tour	English	NEPIO, Regulatory Staff, R&D Organizations	Adjustable to the requests	28
17	Japan Atomic Energy Agency (JAEA) / Integrated Support Center for Nuclear Nonproliferation and Nuclear Security (ISCN)	ISCN-Indonesia Seminar on Capacity Building Cooperation on Nuclear Security	I	HRD Support	Support Indonesia to develop its training center	2 days	Each Country	Nuclear Security	Lecture, Discussion	English	Regulatory Staff, R&D Organizations	Adjustable to the requests	—
18	Japan Atomic Energy Agency (JAEA) / Integrated Support Center for Nuclear Nonproliferation and Nuclear Security (ISCN)	Saudi Arabia-Japan Seminar on Peaceful Use of Nuclear Energy and 3S Human Resource Development	I	HRD Support	To reacknowledge importance on Peaceful Use of Nuclear Energy and Nuclear Nonproliferation	2 days	Each Country	Nuclear Nonproliferation, Nuclear Security	Lecture, Discussion	English	NEPIO, Regulatory Staff, R&D Organizations	Adjustable to the requests	—
19	Japan Atomic Energy Agency (JAEA) / Neutron Irradiation and Testing Reactor Center (NITRC-JMTR)	2014 training course for foreign young researchers and engineers	I, II	Foster young researchers & engineers and exchange of personnel	To contribute broad HRD in nuclear field and promote future irradiation demand through practical training by using JMTR facility etc.,	3 weeks	Japan	Nuclear Engineering, Safety	Lecture, Exercise, On the Job Training, Facility Tour	English	Regulatory Staff, R&D Organizations, Academics	Primary, Intermediate	19
20	Japan Atomic Energy Agency (JAEA) / Nuclear Human Resource Development Center (NuHRDeC)	Instructor Training Course Reactor Engineering I, II, III	0, I, II	Foster lecturers	To foster lecturers who can give technical guidance in their home countries	9 weeks	Japan	Basic Science, Nuclear Engineering, Management of Radiactive Waste Materials	Lecture, Exercise, On the Job Training, Facility Tour	English	NEPIO, R&D Organizations, Academics	Intermediate, Advanced	20
21	Japan Atomic Energy Agency (JAEA) / Nuclear Human Resource Development Center (NuHRDeC)	Instructor Training Course Environmental Radioactivity Monitoring	0, I, II	Foster lecturers	To foster lecturers who can give technical guidance in their home countries	6 weeks	Japan	Basic Science, Radiation Protection, Environmental Radioactive Monitoring	Lecture, Exercise, On the Job Training, Facility Tour	English	NEPIO, R&D Organizations, Academics	Intermediate, Advanced	10
22	Japan Atomic Energy Agency (JAEA) / Nuclear Human Resource Development Center (NuHRDeC)	Instructor Training Course Nuclear and Radiological Emergency Preparedness	0, I, II	Foster lecturers	To foster lecturers who can give technical guidance in their home countries	6 weeks	Japan	Emergency Preparedness, Radiation Protection	Lecture, Exercise, On the Job Training, Facility Tour	English	NEPIO, R&D Organizations, Academics	Intermediate, Advanced	7
23	Japan Atomic Energy Agency (JAEA) / Nuclear Human Resource Development Center (NuHRDeC)	Nuclear Safety Seminar Basic Radiation Knowledge Course	0, I, II	Foster lecturers	To foster lecturers who can give technical guidance in their home countries	2 weeks	Japan	Basic Science, Safety, Radiation Protection, Management	Lecture, Exercise, On the Job Training, Facility Tour, Discussion	English	NEPIO, R&D Organizations, Academics	Intermediate, Advanced	16

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ID	Organization	Project Title	Phase	Objective	Target Level	Period	Location	Major Items	Structure	Language	Objects	Level	Number
24	Japan Atomic Energy Agency (JAEA) / Nuclear Human Resource Development Center (NuHRDeC)	Follow-up Training Course Environmental Radioactivity Monitoring Course	0, I, II	Foster lecturers	To foster lecturers who can give technical guidance in their home countries	1-2 weeks each	Each Country	Basic Science, Radiation Protection, Environmental Radioactive Monitoring	Lecture, Exercise, On the Job Training	English / Local Language	NEPIO, R&D Organizations, Academics	Primary, Intermediate	10-20 each
25	Japan Atomic Energy Agency (JAEA) / Nuclear Human Resource Development Center (NuHRDeC)	Follow-up Training Course Nuclear and Radiological Emergency Preparedness Course	0, I, II	Foster lecturers	To foster lecturers who can give technical guidance in their home countries	1-2 weeks each	Each Country	Basic Science, Emergency Response	Lecture, Exercise, On the Job Training	English / Local Language	NEPIO, R&D Organizations, Academics	Primary, Intermediate	10-20 each
26	Japan Atomic Energy Agency (JAEA) / Nuclear Human Resource Development Center (NuHRDeC)	Follow-up Training Course Reactor Engineering Course	0, I, II	Foster lecturers	To foster lecturers who can give technical guidance in their home countries	2 weeks each	Each Country	Basic Science, Nuclear Engineering	Lecture, Exercise, On the Job Training	English / Local Language	NEPIO, R&D Organizations, Academics	Primary, Intermediate	10-20 each
27	Japan Electric Power Information Center, Inc. (JEPIC) / International Cooperation Center	International Training Program for Safety Management at Nuclear Power Plants (Project Management)	II	Improve safety management level	Acquisition of basic knowledge as a project management	32 days	Japan	Nuclear Safety, Project management, Quality Assurance control, Safety culture	Lecture, Facility Tour, Workshop, Presentation by Trainees	Local Language (Interpretation) Text in English	Nuclear Power Operators	Intermediate	8
28	Japan Electric Power Information Center, Inc. (JEPIC) / International Cooperation Center	International Training Program for Safety Management at Nuclear Power Plants (Quality Control for Civil Works and Equipment Installation of Nuclear Power Plants)	II	Improve safety management level	Acquisition of basic knowledge as the process of quality assurance control	19 days	Japan	Nuclear Safety, Quality assurance control, PDCA cycle	Lecture, Facility Tour, Workshop, Presentation by Trainees	Local Language (Interpretation) Text in English	Nuclear Power Operators	Intermediate	8
29	Japan Electric Power Information Center, Inc. (JEPIC) / International Cooperation Center	International Training Program for Safety Management at Nuclear Power Plants (Fuel Safety Management for Nuclear Power Plants)	II	Improve safety management level	Acquisition of basic knowledge of fuel safety management	19 days	Japan	Nuclear Safety, Design of nuclear fuel, Procurement management of nuclear fuel, Core and fuel management, Transportation of new fuel	Lecture, Facility Tour	Local Language (Interpretation) Text in English	Nuclear Power Operators	Intermediate	8
30	Japan Electric Power Information Center, Inc. (JEPIC) / International Cooperation Center	International Training Program for Safety Management at Nuclear Power Plants (Seismic Safety Management for Nuclear Power Plants)	II	Improve safety management level	Acquisition of basic knowledge of seismic safety management	17 days	Japan	Nuclear Safety, Evaluation of seismic adequacy, Seismic design of building, Piping and components	Lecture, Facility Tour	Local Language (Interpretation) Text in English	Nuclear Power Operators	Intermediate	8
31	Japan Electric Power Information Center, Inc. (JEPIC) / International Cooperation Center	International Training Program for Safety Management at Nuclear Power Plants (Public Relations Activity for Nuclear Power Plants)	II	Improve safety management level	Acquisition of knowledge for plant introduction and fixing up current issues	9 days	Each Country	Public Relations Activity in Japan, Public Relations Activity from the Site Selection Phase to the Construction Phase, Public Relations Activity at NPPs, Research on Public Relations Activity, Knowledge Dissemination and Enlightenment Activity at NPPs Construction Area, Safety Culture	Lecture, Information Exchange	Local Language (Interpretation) Text in English	Nuclear Power Operators	Primary, Intermediate	About 50

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ID	Organization	Project Title	Phase	Objective	Target Level	Period	Location	Major Items	Structure	Language	Objects	Level	Number
32	Japan Electric Power Information Center, Inc. (JEPIC) / International Cooperation Center	International Training Program for Safety Management at Nuclear Power Plants (Safety Design for Nuclear Power Plants)	II	Improve safety management level	Acquisition of knowledge for plant introduction and fixing up current issues	8 days	Each Country	Basic Safety Design of Nuclear Power Plant, General Plant Design based on IAEA Safety Standards, General Safety Design of PWR&BWR based on IAEA Safety Standards Safety Assessment of PWR&BWR in Japan, Safety Culture	Lecture, Information Exchange	Local Language (Interpretation) Text in English	Nuclear Power Operators	Primary, Intermediate	About 50
33	Japan Electric Power Information Center, Inc. (JEPIC) / International Cooperation Center	JICC Seminar on NPP introduction in Lithuania	II	HRD of experts	Improvement of technology and knowledge for introducing ABWR	8 days	Each Country	Planning, Engineering and Construction	Lecture	English (Interpretation)	NEPIO, Regulatory Staff, R&D Organizations, Nuclear Power Operators	Primary	36
34	Japan Electric Power Information Center, Inc. (JEPIC) / International Cooperation Center	JICC Nuclear Seminar in Japan	I, II	HRD of experts	Improvement of technology and knowledge for introducing ABWR	13 days	Japan	Planning, Engineering and Construction, Nuclear Regulations・Nuclear Policy	Lecture, Facility Tour	English (Interpretation)	NEPIO, Regulatory Staff, R&D Organizations, Nuclear Power Operators	Primary	8
35	Japan Electric Power Information Center, Inc. (JEPIC) / International Cooperation Center	JICC Invitation Course on Nuclear Power Plant (NPP) Basics	II	HRD of engineers	Education in graduate level	17 days	Japan	Operation of Nuclear Power Plant	Lecture, Facility Tour	English (Interpretation)	Nuclear Power Operators	Primary	8
36	Nuclear Safety Research Association (NSRA)	Nuclear Researchers Exchange Program	0, I, II	HRD of researcher	To foster basic knowledge for research, improvement of research quality and feedback to their countries	3-6 months	Japan	Basic Science, Basic Engineering, Nuclear Engineering, Operation of Nuclear Power Plant, Fuel Relation, Management of Radioactive Waste Materials, Emergency Response, Safety, Safety Culture, Radiation Protection, Environmental Radioactive Monitoring, Nuclear Security and Safeguards	Research	English	NEPIO, Regulatory Staff, R&D Organizations, Academics	Intermediate, Advanced	20
37	The Japan Atomic Power Company (JAPC) / Tokai Training Center	Fundamental Infrastructure Arrangement for Nuclear Power Plant Introduction in Republic of Kazakhstan	I	HRD for introduction of NPP	Acquisition of necessary knowledge for management on FS and total project management as a core member of future NPP introduction project	2 times (2 weeks each)	Japan	Basic Science, Radiation Protection, Management, Nuclear Regulations・Nuclear Policy, Public Acceptance	Lecture, Exercise, Facility Tour	Local Language (Interpretation)	NEPIO, Regulatory Staff, R&D Organizations, Nuclear Power Operators	Primary, Intermediate	6-8
38	The Wakasa Wan Energy Research Center (WERC) / Fukui International Human Resources Development Center for Atomic Energy	Public Acceptance(PA) Course	II	Contribute to HRD on PA and public relations of nuclear power	Improvement of technology and knowledge	1 week	Japan	Public Acceptance, Municipalities with NPP, Nuclear Energy Policy of Fukui Prefecture, Lessons learned from Fukushima NPP Accident	Lecture, Facility Tour, Discussion	Local Language (Interpretation)	Nuclear Power Operators	Primary	8

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ID	Organization	Project Title	Phase	Objective	Target Level	Period	Location	Major Items	Structure	Language	Objects	Level	Number
39	The Wakasa Wan Energy Research Center (WERC) / Fukui International Human Resources Development Center for Atomic Energy	Nuclear Power Generation Safety Bases(NSB) Course	II	Contribute to securing nuclear safety and HRD in newcomer country	Improvement of technology and knowledge	2 weeks	Japan	Operation of Nuclear Power Plant, Emergency Response, Radiation Protection, Environmental Radioactive Monitoring, Management of Radioactive Waste Materials, Safety	Lecture, Exercise, Facility Tour, Discussion	Local Language (Interpretation)	Nuclear Power Operators	Primary, Intermediate	12
40	The Wakasa Wan Energy Research Center (WERC) / Fukui International Human Resources Development Center for Atomic Energy	Nuclear Energy Plant Safety Course	0, I, II	Contribute to HRD on PA and public relation of nuclear power	To foster lecturers who can give technical guidance in their home countries	4 weeks	Japan	Basic Science, Planning, Engineering and Construction, Operation of Nuclear Power Plant, Fuel Relation, Management of Radioactive Waste Materials, Emergency Response, Safety, Safety Culture, Radiation Protection, Environmental Radioactive Monitoring, Nuclear Regulations・Nuclear Policy, Nuclear Security and Safeguards, Public Acceptance	Lecture, Exercise, Facility Tour, Discussion	English (Interpretation)	NEPIO, Regulatory Staff, R&D Organizations, Academics, Nuclear Power Operators	Intermediate, Advanced	10
41	The Wakasa Wan Energy Research Center (WERC) / Fukui International Human Resources Development Center for Atomic Energy	Nuclear Energy Administration Course	0, I, II	Contribute to nuclear safety and HRD in neighbor Asian countries	To foster lecturers who can give technical guidance in their home countries	3 weeks	Japan	Operation of Nuclear Power Plant, Fuel Relation, Safety, Safety Culture, Radiation Protection, Management, Nuclear Regulations・Nuclear Policy, Public Acceptance	Lecture, Facility Tour, Discussion	English (Interpretation)	NEPIO	Intermediate	10
42	The Wakasa Wan Energy Research Center (WERC) / Fukui International Human Resources Development Center for Atomic Energy	IAEA / Asian Nuclear Safety Network (ANSN)“Regional workshop on Instructors Training Program”	0, I, II	To provide and exchange information for instructors on the subject of “understanding nuclear safety”	To foster lecturers who can give technical guidance in their home countries	1 week	Japan	International standard of IAEA, Lessons learned from Fukushima NPP Accident, Public Understanding about Nuclear Safety, Public Acceptance	Lecture, Facility Tour, Discussion	English (Interpretation)	Regulatory Staff, R&D Organizations, Nuclear Power Operators	Primary	15
43	The Wakasa Wan Energy Research Center (WERC) / Fukui International Human Resources Development Center for Atomic Energy	Nuclear Safety Seminar Site Location Course	0, I, II	Foster lecturers	To foster lecturers who can give technical guidance in their home countries	1 week	Japan	Planning, Engineering and Construction, Safety, Public Acceptance	Lecture, Facility Tour, Discussion	English (Interpretation)	NEPIO, Regulatory Staff	Intermediate	7
44	The Wakasa Wan Energy Research Center (WERC) / Fukui International Human Resources Development Center for Atomic Energy	IAEA / JICC / WERC Nuclear Policy School	I, II	To acquaint with the nuclear energy policy of Japan and IAEA	Central and local government senior managers	1 week	Japan	Safety, Nuclear Regulations・Nuclear Policy	Lecture, Facility Tour, Discussion	English (Interpretation)	NEPIO	Advanced	15