

Session 1

Recent Initiatives of the Nuclear Disaster Resource Center

July 6, 2017

Red Cross Nuclear Disaster Resource Center (NDRC)



1. Radiation emergency medical care advisors and radiation emergency hospitals
2. NDRC Activity Assessment Report
3. NDRC Business Plan for the Future
4. *“Communication with Affected People during a Nuclear Disaster”*
5. International Support
 - Hosting of the Republic of Korea National Red Cross
 - Discussion and collaboration related to nuclear disaster preparedness of sister National Societies and the Movement
6. Others
 - Lectures, etc.

1. Radiation Emergency Medical Care Advisors

- In April 2017, 2 individuals working at Japanese Red Cross Tottori Hospital were additionally named as radiation emergency medical care (REMC) advisors (a body comprised of 26 advisors from 13 facilities)
- Dr. T. Jo at Nagasaki Genbaku Hospital has been replaced by Dr. I. Kinoshita, vice president of the hospital, because of the expiration of the contract.

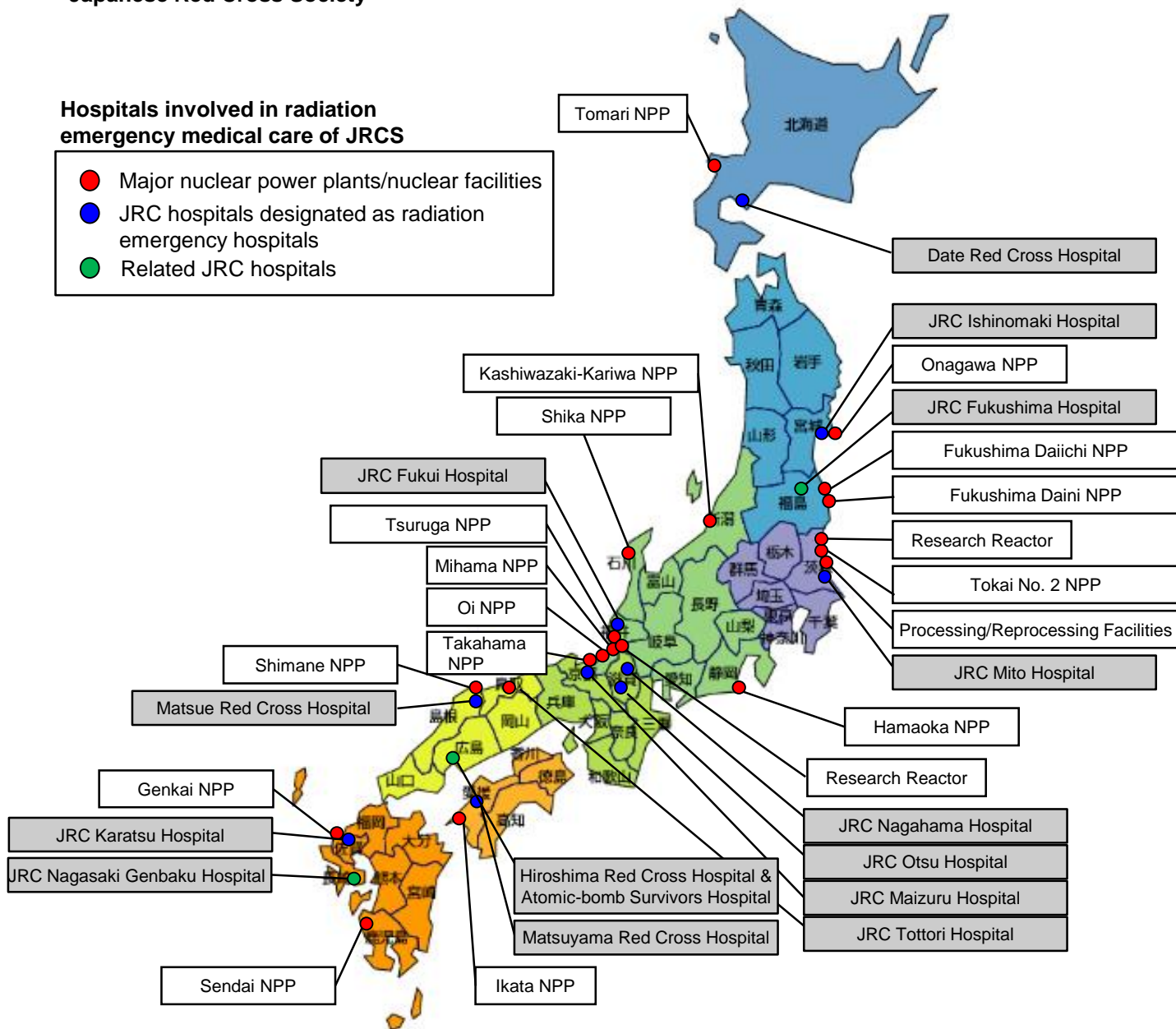
No.	Chapter	Category	Name	Facility Name	Job Title	Tenure
1	Hokkaido	Radiation Safety Specialist	Masafumi Sato	Date Red Cross Hospital	Vice President	Mar-1-2016 – Feb-28-2018
2		Support Staff for Radiation Safety Specialist	Shuuji Yamauchi		Chief Radiologist, Department of Radiology	Mar-1-2016 – Feb-28-2018
3	Miyagi	Radiation Safety Specialist	Hirofumi Ichikawa	Japanese Red Cross Ishinomaki Hospital	Director of Department of Medical Welfare Work and Community Service Activities	Apr-1-2017 – Mar-31-2019
4		Support Staff for Radiation Safety Specialist	Kouichi Nisugi		Radiological Technologist	Apr-1-2017 – Mar-31-2019
5	Fukushima	Radiation Safety Specialist	Yoichi Watanabe	Japanese Red Cross Fukushima Hospital	President	Apr-1-2017 – Mar-31-2019
6		Support Staff for Radiation Safety Specialist	Takanori Kaito		Radiological Technologist	Apr-1-2017 – Mar-31-2019
7	Ibaraki	Radiation Safety Specialist	Kiyoshi Endo	Japanese Red Cross Mito Hospital	Director of Department of Neurosurgery and Deputy Director of Department of Medical Welfare Work & Community Service Activities	Apr-1-2017 – Mar-31-2019
8		Support Staff for Radiation Safety Specialist	Masato Kitazawa		Radiological Technologist	Apr-1-2017 – Mar-31-2019
9	Fukui	Radiation Safety Specialist	Takeshi Tanabe	Japanese Red Cross Fukui Hospital	Director of Anesthesia Department and Manager of Intensive Care Unit	Apr-1-2017 – Mar-31-2019
10		Support Staff for Radiation Safety Specialist	Yoshihiro Nishikoori		Manager, X-ray Technology, Department of Radiology	Apr-1-2017 – Mar-31-2019
11	Shiga	Radiation Safety Specialist	Tomoaki Nakamura	Japanese Red Cross Nagahama Hospital	Director of Emergency Department and Director of Medical Social Work Department	Apr-1-2017 – Mar-31-2019
12		Support Staff for Radiation Safety Specialist	Hisao Matsui		Chief Radiologist, Department of Radiology	Apr-1-2017 – Mar-31-2019
13	Kyoto	Radiation Safety Specialist	Sumitomo Kato	Japanese Red Cross Maizuru Hospital	Vice President	Apr-1-2017 – Mar-31-2019
14		Support Staff for Radiation Safety Specialist	Hidenori Hatanaka		Assistant Manager of the First Radiological Technology Section	Jan-1-2016 – Dec-31-2017
15	Tottori	Radiation Safety Specialist	Masami Kobayashi	Japanese Red Cross Tottori Hospital	Director, Department of Radiology	Apr-1-2017 – Mar-31-2019
16		Support Staff for Radiation Safety Specialist	Takeshi Yoneda		Assistant Manager of Radiology Management, Radiological Technology Section	Apr-1-2017 – Mar-31-2019
17	Shimane	Radiation Safety Specialist	Nobuo Morioka	Matsue Red Cross Hospital	Director of Radiology Department	Apr-1-2017 – Mar-31-2019
18		Support Staff for Radiation Safety Specialist	Yasunori Isoda		Chief Radiologist, Department of Radiology	Apr-1-2017 – Mar-31-2019
19	Hiroshima	Radiation Safety Specialist	Shunichi Kasesda	Hiroshima Red Cross Hospital & Atomic-bomb Survivors Hospital	Vice President	Apr-1-2017 – Mar-31-2019
20		Support Staff for Radiation Safety Specialist	Kenji Yamane		Manager of CT/MR Examination Section	Apr-1-2017 – Mar-31-2019
21	Ehime	Radiation Safety Specialist	Tomoaki Fujisaki	Matsuyama Red Cross Hospital	Director of First Internal Medicine Department	Apr-1-2017 – Mar-31-2019
22		Support Staff for Radiation Safety Specialist	Kenji Takamoto		Radiological Technologist	Apr-1-2017 – Mar-31-2019
23	Saga	Radiation Safety Specialist	Masashi Sakai	Japanese Red Cross Karatsu Hospital	Director of Medical Social Work Department and Deputy Director of Second Surgery Department	Apr-1-2017 – Mar-31-2019
24		Support Staff for Radiation Safety Specialist	Seiichiro Sakai		Assistant Manager of the First Radiological Technology Section, Department of Radiological Technology	Apr-1-2017 – Mar-31-2019
25	Nagasaki	Radiation Safety Specialist	Ikuo Kinoshita	Japanese Red Cross Nagasaki Genbaku Hospital	Vice President and Director of Neurology	Apr-1-2017 – Mar-31-2019
26		Support Staff for Radiation Safety Specialist	Yusuke Maeda		Assistant Manager of Radiography	Apr-1-2017 – Mar-31-2019

JRCS* Radiation Emergency Hospitals

*Japanese Red Cross Society

Hospitals involved in radiation emergency medical care of JRCS

- Major nuclear power plants/nuclear facilities
- JRC hospitals designated as radiation emergency hospitals
- Related JRC hospitals



Nuclear Disaster Relief Core Hospitals
JRC Ishinomaki Hospital
JRC Fukushima Hospital
JRC Fukui Hospital
JRC Nagahama Hospital
JRC Otsu Hospital
Matsuyama Red Cross Hospital
JRC Karatsu Hospital
Collaborating Hospitals for Nuclear Disaster Medical Care
Date Red Cross Hospital
JRC Mito Hospital
JRC Maizuru Hospital
JRC Tottori Hospital
Matsue Red Cross Hospital
Related Medical Institutions
Hiroshima Red Cross Hospital & Atomic-bomb Survivors Hospital
JRC Nagasaki Genbaku Hospital

2. NDRC Activity Assessment Report (I)

1. Purpose

To assess NDRC activities after 3 years since its inception

- Record of NDRC activities
- Reflect back on the past activities to make them the grist for sorting out future issues
- Give account for the significance of NDRC activities to the internal stakeholders, thereby creating grounds to discuss continuance of operation

2. System for implementation of the assessment

Outsourced to the Japan Research Institute, Limited as an outsourcing project in the fiscal year 2016

3. Assessment method

- Categorize the programs NDRC has implemented by activity
⇒Sorted into 14 activity categories
- Evaluate each activity according to the criteria established by the OECD Development Assistance Committee (DAC).
Relevance/Effectiveness/Efficiency/Impact/Sustainability
- Interview the Guideline Study Group members and external experts

4. Completion of the assessment report

Completed in June, 2017

➤ Outline of the activity assessment report.

1. Overview of the Assessment

- (1) Background and purpose
- (2) Subject and indicator/method for assessment

2. Summary of the Project NDRC

- (1) Background of foundation
- (2) Outline of the project
- (3) Principles of activities
- (4) Operation system
- (5) Total budget for the project

3. Summary of Activities and Assessment

- (1) Formulate guidelines and promote them
- (2) Accumulate and disseminate information via the Digital Archives
- (3) Host seminars/workshops
- (4) Contribute to the international community to improvement in nuclear disaster response capabilities

4. Assessment of the NDRC

5. Summing-up and Proposal

2. NDRC Activity Assessment Report (III) Classification by Pillar of Activities

- The activities were sorted into 4 areas; 1. Formulate/Promote guidelines, 2. Accumulate/Disseminate information via the Digital Archives, 3. Host seminars/workshops, and 4. Contribute to the international society to improvement of nuclear disaster response capabilities

Pillar of Project	Activity	Pillar of Project	Activity
Formulate/ Promote guidelines	<ul style="list-style-type: none"> (1) Developed and amended the Guidelines for the JRCS relief activities during nuclear disaster. (2) Enhanced the environment to facilitate emergency responders' activities during nuclear disaster. (3) Addressed the challenges that were defined, during the course of formulating the Guidelines, as issues requiring continued follow-ups. 	Host seminars/ workshops	<ul style="list-style-type: none"> (8) Hosted seminars on nuclear disaster. (9) Set up/run the <i>Cross Lounge</i>. (10) Formed alliance with relevant organizations in nuclear disaster response. (11) Formed alliance/created a network with younger generation.
Accumulate/ Disseminate information via the Digital Archives	<ul style="list-style-type: none"> (4) Accumulated/shared the information about JRCS's response and experience in the Fukushima Daiichi nuclear plant accident. (5) Established/operated the Digital Archives system. (6) Introduced information about nuclear disaster to the general public. (7) Collaborated /established a network in relation to the Digital Archives. 	Contribute to the international community to improvement of nuclear disaster response capabilities	<ul style="list-style-type: none"> (12) Supported programs to enhance nuclear disaster response capabilities of the International Federation of Red Cross and Red Crescent Societies (IFRC). (13) Translated the web contents, the Guidelines, etc. into English. (14) Disseminated information about nuclear disaster response of Japan to the international community and formed a network.

2. NDRC Activity Assessment Report (IV) Evaluation of the REMC Advisor System

- (2) Enhancement of the environment to facilitate emergency responders' activities during nuclear disaster
 - b) Appointed REMC advisors and hosted the meetings of REMC advisors on a regular basis.
 - c) Designed and implemented a training program for relief team members.
 - d) Developed a manual.

Examples of Assessment

ii . Effectiveness

Stocked equipment and materials for nuclear disaster response so that relief activities can be conducted should a nuclear disaster occur in the future. Additionally, enhanced the system by appointing REMC advisors to ensure that the JRCS disaster response headquarters can assess the safety status of relief teams.

iii . Efficiency

Created the training materials and provided the training in cooperation with the physicians and radiological technologists belonging to the Red Cross hospitals, thereby optimizing the internal resources and curtailing the cost.

- (3) Efforts to address the challenges that were defined, while the Guidelines were being formulated, as issues requiring continued follow-ups.

Examples of Assessment

ii . Effectiveness

Been able to review issues in an efficient way by optimizing the specialists available within JRCS.

iv . Impact

Shared recognition of the issues and promoted information exchange among the relevant Red Cross hospitals and the Chapters as they reviewed the challenges.

2. NDRC Activity Assessment Report (V) Summing-up and Proposal

Summing-up

By way of the efforts such as establishment of the system of relief activities during nuclear disasters, development of the experts including REMC advisors, and contribution to community nuclear disaster preparedness through radiation emergency hospitals, the JRCS as a whole has firmly established its position in the nuclear disaster management system in Japan.

Proposal

- Maintain/Update the human network for nuclear disaster response
- Promote availability of the Archives and expand its user base
- Continue/Evolve the initiatives the NDRC has implemented so far
 - i. Continue to provide information by the Archives
 - ii. Evolve the nuclear disaster response capabilities of the JRCS
 - iii. Continue to make contribution to the international community

Review the activity policy related to social contribution in the area of nuclear disaster response, representing the JRCS

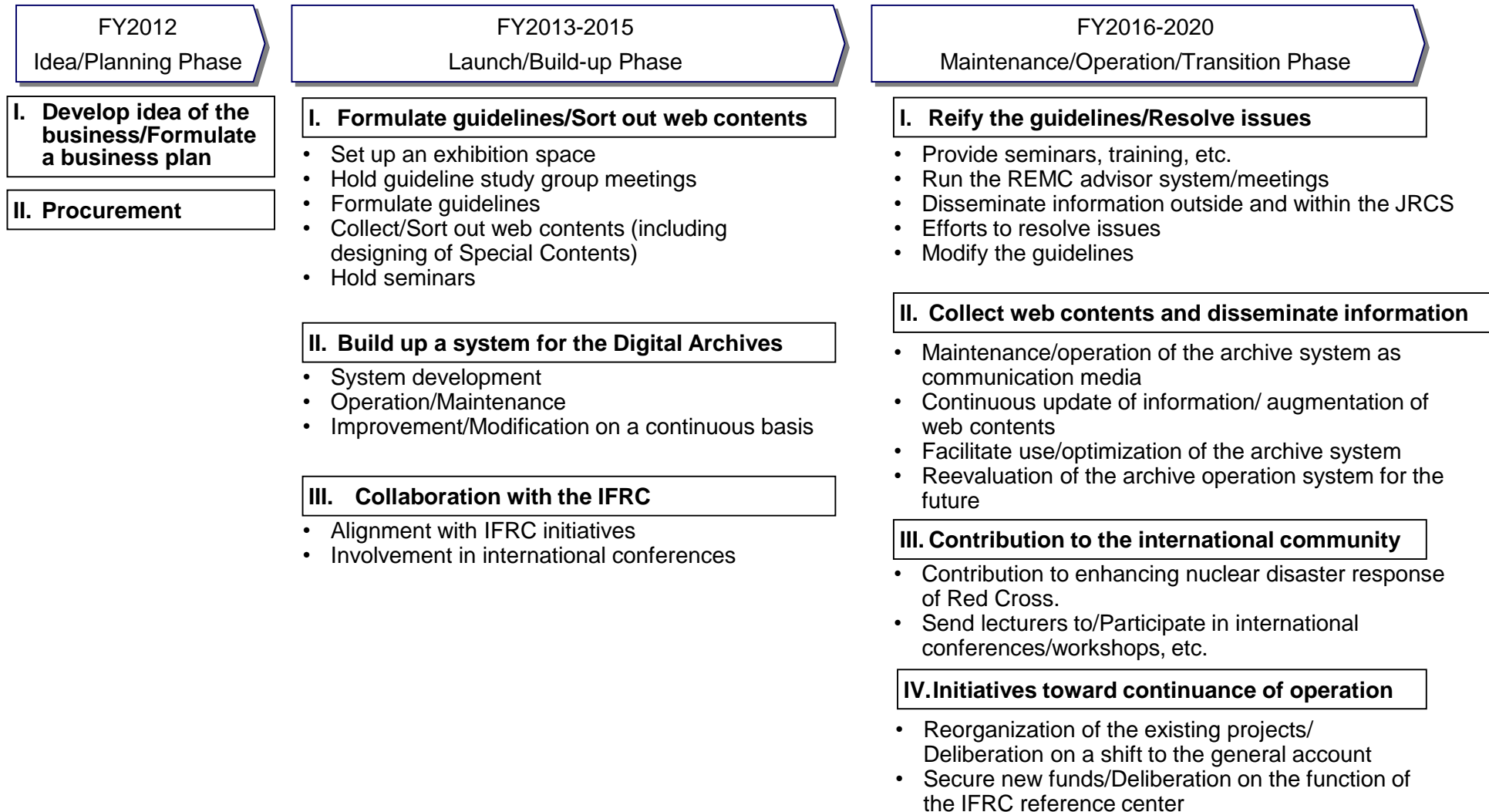
Based on this activity assessment, how a future picture of the NDRC should be and where it will be positioned in the JRCS's enterprises need to be clarified. Whether they should acquire the status of a reference center of the IFRC will also be a point for discussion.

Establish a system/secure funds to continue operation over long periods of time

To continue comprehensive activities, a certain size of workforce and structure, as well as funds to sustain them, are required for NDRC. Ideas and design/development of fundraising, review of marketing and promotion, coordination with each stakeholder to implement these programs and so forth, will be needed to secure stable sources of funds.

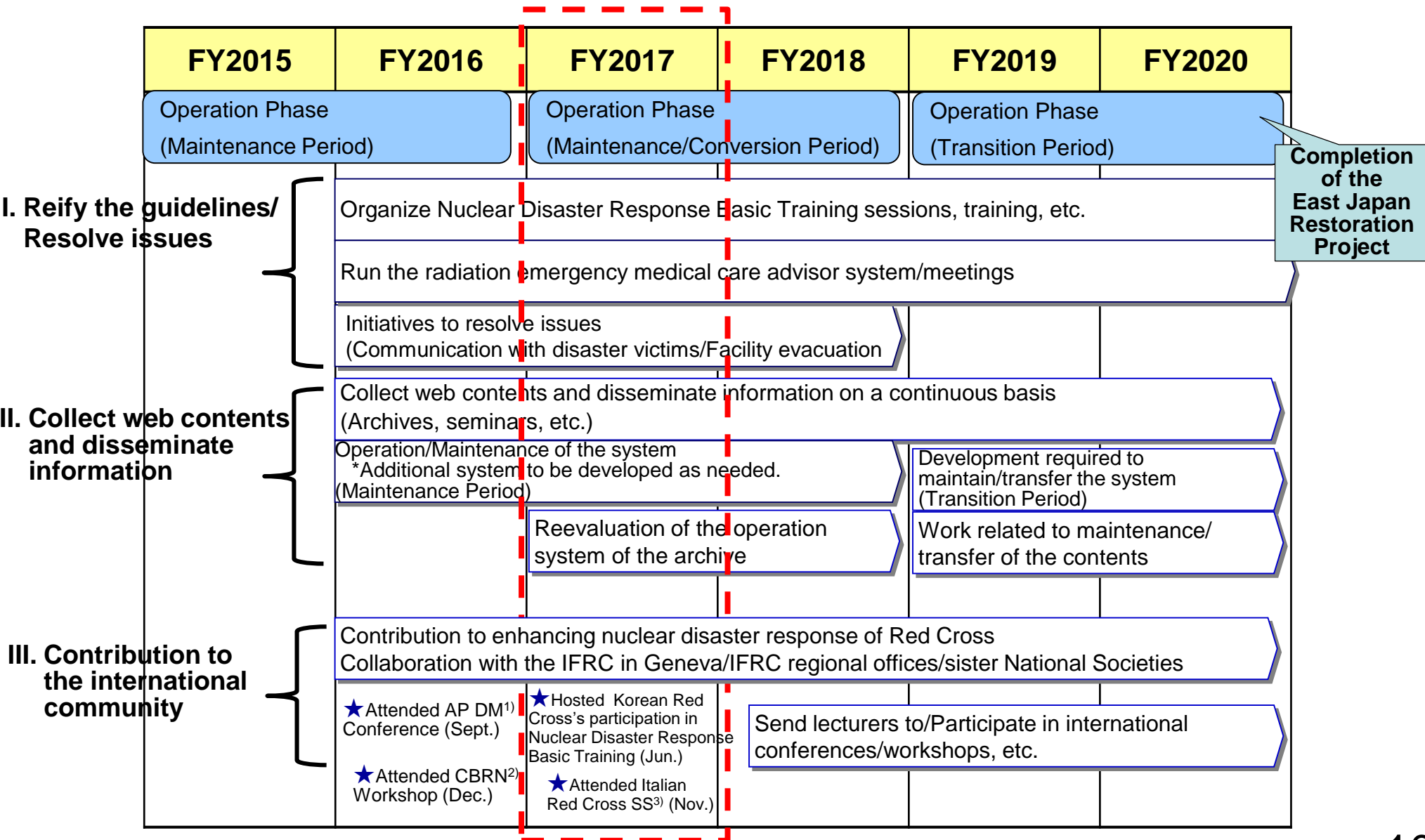
3. NDRC Business Plan for the Future (I) Master Plan

- ◆ The NDRC has been in operation to date since the idea/planning phase in the FY2012 through the launch/build-up phase.
- ◆ From FY2016, moving into the maintenance/operation phase, it began to provide services with a long term view.
- ◆ Starting from FY2017, the NDRC has begun to undertake initiatives related to continuance of operation in view of the completion of the Great East Japan Earthquake recovery assistance project.



3. NDRC Business Plan for the Future (II)

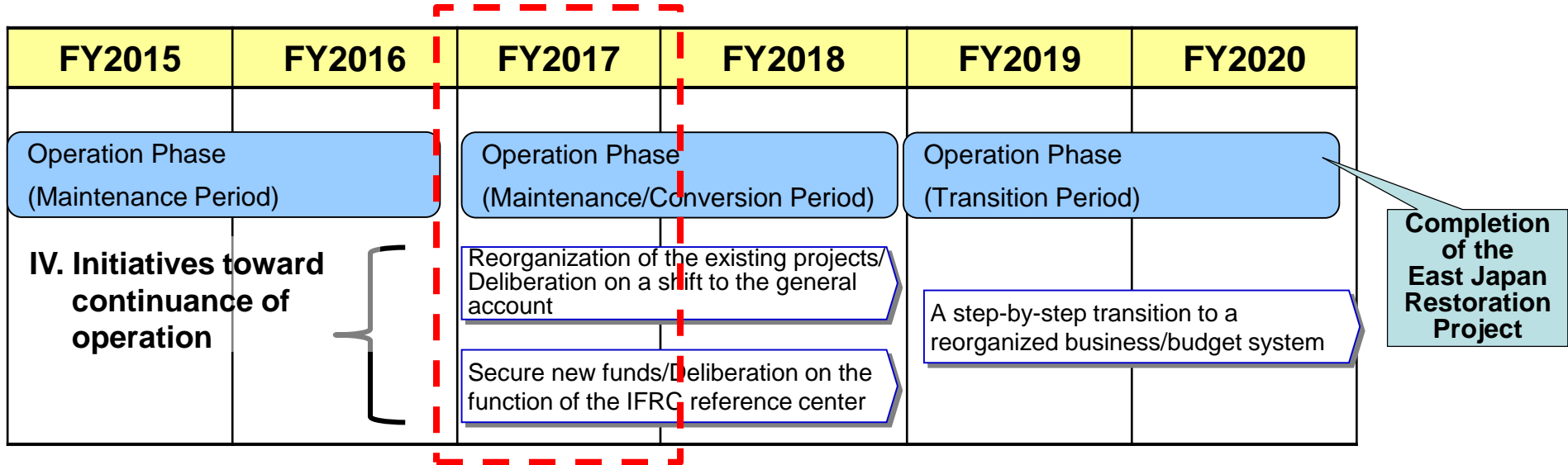
◆ The general plan related to the NDRC activities



1) Asia Pacific National Societies Disaster Management; 2) Chemical, Biological, Radiological and Nuclear; 3) Summer School

3. NDRC Business Plan for the Future (III)

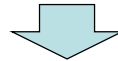
◆ The general plan related to the NDRC activities



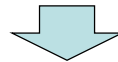
4. “Communication with Affected People during a Nuclear Disaster”

- A series of events following the FY2016 second meeting of the REMC advisors

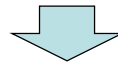
Incorporated what was discussed at the meeting and the comments made there



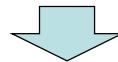
Further review by NDRC of the structure and expression



Specialists in JRCS in the area of “psychological care during disaster” consulted.
Dr. Noriko Murakami (Japanese Red Cross Kobe Hospital), Dr. Takahisa Saiga (Japanese Red Cross Narita Hospital), and Mr. Reo Morimitsu (clinical psychologist, Japanese Red Cross Suwa Hospital)



Dr. Arifumi Hasegawa and Dr. Shiro Matsui of Fukushima Medical University worked as editorial supervisors



The booklet produced.

- How the booklet has been utilized so far:
 - Published on the Digital Archives.
 - Introduced in the lectures given at the Nuclear Disaster Response Basic Training sessions held by the JRCS chapters in the 1st and the 3rd blocks.
 - Mailed to each JRCS chapter and facility.

1. Purpose and Background

The Republic of Korea National Red Cross (KNRC) had, on some occasions such as the AP DM Conference (Sep. 2016) and the CBRN Workshop (Dec. 2012), expressed an interest in making a study tour of Japan. Because they were particularly interested in; (1) participation in the Nuclear Disaster Response Basic Training, (2) visit to the area affected by the Great East Japan Earthquake including Fukushima, and (3) to learn the nuclear disaster preparedness established by the JRCS, we invited them to Japan taking the opportunity of holding a Nuclear Disaster Response Basic Training at the Japanese Red Cross Ishinomaki Hospital.

2. Formation of the KNRC Delegation

The Managing Director of the Disaster and Safety Department and 2 workers from the KNRC headquarters + 8 workers in charge of disaster response at the chapters located in the areas housing nuclear power plants.

3. Schedule and Activities

- i. Jun 2 (Fri): Visit to the JRCS headquarters, presentations
 - a. JRCS disaster response system (M. Yamazawa, Dir. Gen.-NDRC)
 - b. JRCS initiatives for nuclear disaster preparedness (M. Fujimaki, Program Officer)
 - c. The *Nuclear Emergency Response Guidelines* and how the emergency response during nuclear disasters ought to be understood) (K. Hayashida, Deputy Director for Management and Policy Planning, Nuclear Disaster Management Bureau, Cabinet Office)
- ii. Jun 3 (Sat): Visit to the information center related to the Fukushima Daiichi nuclear accident (“Commutan Fukushima”), touring of the surrounding area, presentations
 - a. Visit to Commutan Fukushima (3.11 Hall/Fukushima today/Get to know radiation/Protect ourselves/Measurement/Decontamination)
 - b. JRCS activities following the occurrence of the Fukushima Daiichi nuclear accident (S. Kishinami, Director of General Affairs & Organizational Development Division of the Fukushima Chapter)
 - c. Outline of the JRCS recovery assistance project in Fukushima (K. Takano, Director General of the JRCS Fukushima Chapter)
 - d. Role of the KNRC in the nuclear disaster system of Korea
 - e. Tour of the area surrounding the Daiichi Nuclear Power Plant (Hirono-machi → Naraha-machi → Tomioka-machi → Okuma-machi → Futaba-machi → Minamisoma City: Drove up north along the Route 6th with information narrated by Mr. Kishinami of the Fukushima Chapter)

5. International Support: Hosting of the Korean Red Cross (II)



- iii. Jun 4 (Sun): Participated in the Nuclear Disaster Response Basic Training at the Japanese Red Cross Ishinomaki Hospital and visited the PR Center of the Onagawa Nuclear Power Station
 - a. Lecture 6/Hands-on training 1: How to use a personal dosimeter, a demonstration of how to put on/remove a protection suit (Messrs. Sakai, Matsui, and Komai)
 - b. Hands-on training 2: How to use a survey meter, a demonstration of how to perform radiation screening (Messrs. Nisugi and Kaito)
 - c. Group Work 2 (observation)
 - d. Onagawa Community Medical Center, Disaster Museum, PR Center of the Onagawa Nuclear Power Station (Observation tour)



5. International Support: Discussion and collaboration related to nuclear disaster preparedness

1. Discussion with Gwendolyn Pang, Head of IFRC Country Cluster Support Team-IFRC, in Beijing.
 - (1) Date/Time: Feb. 27, 2017 (Mon) 14:00-15:30 at the JRCS Headquarters
 - (2) Topics
 - Workforce/Budgeting structure of the Red Cross Nuclear Disaster Resource Center (NDRC)
 - Outline and management/operation system of the NDRC Digital Archives
 - Nuclear disaster preparedness of the IFRC in East Asia

2. Discussion with Martin Krottmayer, Senior Officer, Nuclear and Radiological Accidents Preparedness Programme Services Div.-IFRC, and G. Pang
 - (1) Date/Time: Apr. 27, 2017 (Wed) 10:00-17:00 at the JRCS Headquarters
 - (2) Topics
 - Future plan (Concept Note) related to nuclear disaster preparedness of RCRC and the Movement
 - Viability of making the Red Cross NDRC into a Reference Center of the IFRC
 - Deliberation on establishing a focal point of IFRC in Asia
 - How the system of conference/training including CBRN workshop should stand

3. Initiatives for future collaboration
 - (1) Holding of the 5th CBRN Reference Group Meeting (Aug. 21-25 in Beijing)
 - (2) Cooperate to hold the International Summer School organized by the Italian Red Cross (the initial dates (late June) have been postponed)
 - (3) Assist to hold an IFRC session at the International Disaster and Risk Conference (Nov. 25-28 in Sendai)

➤ **Presentation at the 22nd Annual Meeting of Japanese Association for Disaster Medicine**

- (1) Date/Time: Feb. 14, 2017 (Tue)
- (2) Session: General Presentation 8 - “Natural Disaster/Man-Made Disaster 2” (5 min. for presentation, 2 min. for Q&A)
- (3) Contents: *JRCS’s Recent Initiatives for Addressing Nuclear Disaster*
(By M. Fujimaki, Prog. Officer)

➤ **Presentation at the FY2016 Conference of the Council for Facilitating the Alliance in Medical Care in the Event of Nuclear Disaster**

- (1) Date/Time: Jan. 26, 2017 (Thu)
- (2) Contents: *JRCS’s Initiatives in Nuclear Disaster Preparedness* (15 min.)
(By M. Yamazawa, Dir. Gen.-NDRC)
 - At the first meeting of the Council, where many organizations involved in nuclear disaster medicine assembled from across Japan, the JRCS was given the first slot of the Session I (*Initiatives Undertaken at the Organizations for Responding to Nuclear Disasters*) to present our programs.
 - The presentation called for collaboration across the organizations for responding to nuclear disasters and the bodies providing disaster medical care, to facilitate nuclear disaster response capabilities of Japan.
 - Supported by the attendance of R. Takeda (Director of Operations Division of the JRCS Fukushima Chapter), Dr. Y. Watanabe (Fukushima Red Cross Hospital), Dr. M. Sakai (Japanese Red Cross Karatsu Hospital), Dr. T. Nakamura (Japanese Red Cross Nagahama Hospital), and Dr. M. Matsubara (Japanese Red Cross Otsu Hospital), the JRCS showed strong presence among the organizations involved in nuclear disaster medicine.

- **Lecture at the FY2016 Second Training Session for the JRCS Disaster Medical Care Coordinators**
 - (1) Date/Time: Feb. 18, 2017 (Sat) 13:25 - (20 min.)
 - (2) Session 2 – “To Understand the Disaster Coordination of the JRCS” (lecture)
 - (3) Contents: *The JRCS Response and Coordination in Time of Nuclear Disaster*
(By M. Yamazawa, Dir. Gen.-NDRC)
 - The occasion was a good opportunity to explain the system that will be run during nuclear disaster to the JRCS disaster medical care coordinators. It also provided a chance for the NDRC personnel to have interaction not only with the participants in the training, but also with more than 30 lecturers who attended the training.