

## **DRAFT**

### **COMMISSION ON RADIATION PROTECTION NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION**

Minutes of a regular meeting, conducted virtually via Microsoft TEAMS, at 9:30 a.m. on  
February 14, 2024

The following Commission members were virtually present: Dr. Julie Timins (Chair), Mary E. Moore (Vice-Chair), Patrick Mulligan, Larainne Koehler, Bob Tokarz, and Dr. Donald Denny. John Mauro joined at 9:58 am.

Also, virtually present: DAG Elizabeth Delahunty; Ecotron staff: David Kim and Sang Bong Lee; Dynamic Medical Imaging staff: Gili Karniel, Nogah Shabshin, Thomas Petrone, Dov Elbaz, Christopher Smitherman; Memorial Sloan Kettering Staff: David Bierman, and Matthew Williamson.

Radiation Protection Staff members virtually present: Jennifer Daino, Ramona Chambus, Diane Halaycio, Mary Kanewski, Robert Cooper, Jeffrey Delvalle, Nathan Papperman and Arthur Robinson,

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#### **Call to Order**

Dr. Timins called the meeting to order at 9:33 a.m. and announced that notice of the meeting complied with the Open Public Meetings Act. The Notice was published in the Courier Post, Trenton Times, and Bergen Record. The Notice was filed with the Secretary of State and posted in at least one place reserved for such or similar announcements.

#### **Roll Call**

A quorum was met with nine Commission members in attendance.

#### **November 15, 2023 - CORP Minutes:**

Dr. Denny moved to approve the minutes for the November CORP meeting. Mr. Tokarz seconded the motion. Minutes were approved (5 in favor, 0 opposed, 0 objections, 1 abstentions).

#### **Report of the Chair**

Dr. Timins noted that the National Council on Radiation Protection and Measurements (NCRP) is holding its Annual Meeting in Bethesda, Maryland at the Hyatt Regency Bethesda on March 25-26. The topic is "Advanced & Small Modular Nuclear Power Reactors". The registration fee is \$175

## **Report of Commission Members**

Ms. Koehler informed the Commission members that the American Dental Association (ADA) recently published new recommendations on patient shielding during dental x-rays. The ADA no longer recommends the use of lead abdominal aprons or thyroid collars when conducting dental radiography or dental Cone Beam CT. Also, dentists should keep in mind the diagnostic information needed when considering dental radiography. Ms. Koehler cited NCRP Report No. 177 "Radiation Protection in Dentistry and Oral & Maxillofacial Imaging" (2019) as a reference.

Link to information on the ADA website is found at:

<https://www.ada.org/about/press-releases/ada-releases-updated-recommendations-to-enhance-radiography-safety-in-dentistry>

## **Old Business:**

### **Ecotron Co. Ltd., DT-703 (Conditional Approval on February 14, 2024)**

Mr. Robert Cooper presented information on the exemption request for Ecotron Co., Ltd. DT-703 hand-held dental unit from certain provisions of New Jersey Administrative Code (N.J.A.C.) 7:28-16.3(a)11, 16.3(a)21, 16.10(a)2 and 16.10(a)4. Commission members were provided a detailed Commissioner's Memorandum, a revised Operator's Manual, and a revised Operator Exam with answer key, in advance of the meeting. In attendance from Ecotron Co. Ltd., via Microsoft TEAMS was Mr. Dave Kim and Mr. Sang Bong Lee.

After reviewing the User's Manual and the Operator Exam with answer key, several Commission members found some areas of concern with the exam. For the User's Manual, the Commission agreed that the revisions made by Ecotron adequately addressed the concerns mentioned in the November 15, 2023 meeting. For the Operator Exam, several Commission members stated that there were two questions that needed to be revised or replaced. The Commission also noted that there were inconsistencies between the exam and the answer key. Specific examples were cited and questions 7 and 18 need to be revised or replaced.

After considerable discussion, Mr. Robert J. Tokarz made a motion to conditionally approve the Ecotron exemption request with the understanding that the Bureau staff will work with Ecotron to address the remaining issues with the Operator Exam with answer key. Mr. Donald Denny seconded the motion. The Commission voted and unanimously agreed to conditionally approve the request. The conditions specified by the Commission were that Ecotron must submit a revised Operator Exam with answer key for review by Bureau as well as the Chair and Vice Chair of the Commission. Ecotron's exemption request will be granted upon obtaining approval of the revised Operator Exam with answer key from both the Chair and Vice Chair of the Commission.

Mr. Tokarz moved to conditionally approve the Ecotron Co., Ltd. Exemption request. Dr. Denny seconded the motion. Exemption was conditionally approved (7 in favor, 0 opposed, 0 objections, 0 abstentions).

## **New Business:**

### **Request for alternate QC program for NANOX. ARC 3D Tomosynthesis Imaging System**

Ms. Kanewski presented information on the alternative QA program request for Dynamic Medical Imaging for Item 8. Light Field/X-ray Field Alignment test listed in Table 1, Radiographic Quality Control Requirements and Item 2. Collimation Assessment in Table 4, Medical Physicist's Radiographic QC Survey. Commission members were provided a detailed memorandum, the facility's alternate QA program request letter, an alternative QC test for Table 1 Radiographic Quality Control Requirements, an alternative QC test for Table 4, Medical Physicist's Radiographic QC Survey, a copy of the Medical Physicist Radiographic QC Survey performed for all five tubes as well as the radiation protection survey, quarterly phantom evaluation performed, and a sample of the facility's quarterly x-ray field/active area of the detector alignment test, all of which were in advance of the meeting.

In attendance from Dynamic Medical Imaging via Microsoft Teams, was Mr. Thomas Petrone, Medical Physicist, Mr. Christopher Smitherman, Medical Physicist, Mr. Dov Elbaz, Product & Installation Manager, Arc Division, Ms. Nogah Shabshin MD, Head of Tomosynthesis, and Mr. Gili Karniel, Head of Product. During the meeting, much discussion was made in regard to the operation, advantages, dose comparison, and safety features of the Nanox. ARC 3D Tomosynthesis Imaging System.

Mr. Tokarz explained the alternative QA request to perform the light field/x-ray field alignment test using the line in the camera field as a replacement to the light field was not a new process. The concept to measure the 2% misalignment of the SID is still the same. The UNFORS unit which uses a digital ruler is used the same way in testing the light field/x-ray field alignment. Mr. Tokarz did not find any issues with the alternate QA program used by Dynamic Medical Imaging.

Mr. Tokarz moved to approve the Dynamic Medical Imaging request for alternate QC program for the Nanox Arc 3D. Dr. Denny seconded the motion. The request was approved (7 in favor, 0 opposed, 0 objections, 0 abstentions).

## **Closed Session**

None to Report

## **Public Comment**

None to report

## **Adjournment**

The meeting adjourned at 10:59 a.m. Audio recording of the meeting is available for review. Copies of the abbreviated minutes are available by contacting Jennifer Daino at [jennifer.daino@dep.nj.gov](mailto:jennifer.daino@dep.nj.gov)

*Patrick Mulligan*

Patrick Mulligan, Assistant Director  
Commission Secretary

March 20, 2024

Date

My signature indicates that the above minutes of the February 14, 2024, Commission meeting are reflective of the activities of such meeting and were approved by at least a majority vote at a subsequent meeting of the Commission as indicated by the date above.