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## Modification of Rules for Using Aribex Nomad Hand Held X-Ray System

Maine Radiation Control Program's X-Ray section has compiled sufficient information from both internal and external sources to reassess its temporary rules for using the Aribex Nomad X-Ray system. Based on records from personnel dosimetry and previous studies undertaken by Diquad, LLC., US Air Force and information from the manufacturer, we have concluded that a number of the requirements that have been in place for the last few years can be eliminated without increasing radiation exposure to either patient or the hygienist using the unit. Below is a list of the rules which were initially instituted and a brief statement explaining why each is being either retained, modified or eliminated.

- 1) Mandatory Inspection by Physicist prior to use: **MODIFIED**. The inspection of the unit will now be required within 30 days. No inspections of these units has indicated any operational issues of concerns coming directly from the manufacturer.
- 2) Unit shall only be used for which a shielding design has been completed and shielding installed: **RETAINED**: Using the Nomad System in the field (not in a shielded room) will require a written procedure approved by the Radiation Control Program.
- 3) When taking exposures, users shall wear finger and whole body dosimeters. **MODIFIED**: All users shall continue to use whole body dosimetry, however the facility may choose to use a single dosimeter (as opposed to a finger ring for each user) on the casing of the unit (where steadying hand is placed) in order to track internal shielding leakage potential.
- 4) Unit shall only be used at the facility where it is registered. **RETAINED** (clarification: unit may not be loaned out to a facility not registered to use it)
- 5) Repeat Rates and reasons for them shall be tracked, tabulated and sent to our office quarterly. **Eliminated** (clarification: good office practices require that repeat rates and reasons for them are tracked and tabulated, however, this is data no longer needs to be sent to our office.
- 6) Part D. Sections 25 and 26 (Storage and Control of Licensed or Registered Sources of Radiation) will apply to this unit: **RETAINED** (due to the portability of this system, the potential remains for unauthorized use, therefore the above requirements will be retained)

*All persons using the Aribex Nomad X-Ray System (or similar hand held or portable unit) in the field will continue to be required to submit safety and operational procedures to the Radiation Control Program for prior approval.*