


Name of Policy:	Continual Quality Assurance for Megavoltage Radiation Treatment Units	 Effective Date: 1/2007 Initial Effective Date: 9/1980
Policy Number:	3364-134-32	
Department:	Radiation Oncology	
Approving Officer:	Vice President & Executive Director	
Responsible Agent:	Technical Manager, Radiation Oncology	
Scope:	Radiation Oncology	
<input type="checkbox"/> New policy proposal <input type="checkbox"/> Major revision of existing policy		<input type="checkbox"/> Minor/technical revision of existing policy <input checked="" type="checkbox"/> Reaffirmation of existing policy

(A) Policy Statement

Under the supervision of a Board Certified Medical Physicist, each megavoltage treatment machine shall be checked monthly for physical and mechanical integrity and performance.

(B) Purpose of Policy

To ensure satisfactory performance of megavoltage radiation therapy units.

(C) Procedure

1. Under the supervision of a Board Certified Medical Physicist, monthly QA is performed and using generally accepted Quality Assurance procedures, based on the AAPM TG40 report:

a. Light field/radiation field coincidence

Each day check:

- a. Optical distance indicator/mechanical distance indicator coincidence
- b. Laser lights
- c. Interlocks
- d. Table, collimator and gantry motions
- e. Isocenter
- f. Output
- g. Energy check

Any other parameter deemed necessary.

2. Document and file the results in the Radiation Physics Division Office.

Approved by:	Review/Revision Date:
<p>_____ John Feldmeier Professor Radiation Oncology</p> <p style="text-align: right;">_____ Date</p>	<p>10/1981 4/1999 1982 3/2002 1983 1/2007 1984 1985 1986 1987 1988 1989 2/1990 1/1994 2/1995 2/1996 3/1997</p>
<p>_____ Mark Chastang Vice President & Executive Director</p> <p style="text-align: right;">_____ Date</p> <p><i>Review/Revision Completed By: Michelle Giovanoli</i></p>	Next Review Date: 1/1/2010
Policies Superseded by This Policy: 38-32	

It is the responsibility of the reader to verify with the responsible agent that this is the most current version of the policy.