Name	Test	Conditionals			Recommended Action
		Pass	Warn	Fail	
Jaw Gap	Tests that jaw gaps are within deliverable tolerance	Deliverable	Not deliverable, will automatically fix and prompt recomputation	N/A	None required
MLC Gap	Tests that MLC leaves are within dilverable tolerance	Deliverable	Not deliverable, will automatically fix and prompt recomputation	N/A	None required
EDW Gap	For EDW: tests that MU > 20 and Y Jaws are between -10 and 10cm, with an opening between 4-30 cm For Elekta: tests that MU < 999	Deliverable	N/A	Not deliverable	**Failing:** Fix wedged field settings
MLC Behind Jaws	Identifies if MLCs are open > 0.6 cm at a distance of > 0.1 cm behind the leaves	MLC not open behind leaves	MLCs open behind leaves	N/A	**Warning:** Select options box to identify specific leaves. Check control points to check if the error is egregoius.
Collimator Angles	Checks that collimator angles are not zero for a VMAT or conformal arc plan, also checks if collimator angles are repeated	All beams have unique, non-zero collimator angles	Two beams share a collimator angle	A beam has a non-zero collimator angle	**Warning:** Check collimator angles, okay if two partial arcs use the same angle. **Failing**: Set collimator angles to non-zero.
CW/CCW Name Check	Checks that the usage of "CW" or "CCW" in beam names corresponds to the gantry motion. Checks that beams alternate CW or CCW.	Beams named properly	A CW or CCW beam are mis-labeled. Two beams with same rotation are ordered sequentially.	N/A	**Warning:** If using partial arcs, proceed. If not using partial arcs, confirm that the beam ordering is optimal. Confirm that beam naming corresponds to gantry rotation.
Bolus Check	Checks if all beams in a beam set have bolus attached.	All beams have bolus attached.	Not all beams have bolus attached.	N/A	**Warning:** Check bolus attachement to all beams.
FiF MU Limit	Checks that all FiF segments have >1 MU	All segments >1 MU	N/A	Any segment <1 MU	**Failing:** Fix beam weighting or remove segment below threshold
Rx Dose Limit	Checks that dose per fx > 150cGy	Dose > 150 cGy/fx	Dose < 150 cGy/fx	No fractionation entered	**Warning:** Check against the PD that a low dose / fx is prescribed. **Failing:** Enter the fractionation
Dose Grid Size	Checks that the proper dose grid size is used for VMAT or SBRT plans	A dose grid of <2mm is used	A dose grid of 3mm is used for a plan with >5 fractions	The dose grid is >3mm or 3mm with 5 or less fractions	**Warning or failing:** Apply defualt dose grid and recompute the dose
Iso Couch Distance	Checks that the isocenter is <24cm above the couch	Isocenter is <24 cm above the couch	Isocenter is >24 cm above the couch	N/A	**Warning:** Carefully assess clearance of the gantry. Changing the isocenter location is hihgly recommended.
Iso Shift Distance	Checks that any lateral shift > 5cm does not have an arc going throught the opposite side of the patient (partial arcs are allowed)	Shifts > 5cm use partial arcs	Gantry contrelateral to shifted direction, No Localization Point POI given, an unsupported orientation is used (not HFS / FFS)	N/A	**Warning:** If full arcs are used in conjunction with shift >5cm, check the machine used. **Warning:** If localization point not present, fix POI designation.
Collision Check	Creates a ring of 39.5cm around the isocenter, determines if any part of the external or couch lie outside of the ring	No part of the external or couch lie outside of d_CollisionCheckRing	A couch kick other than 0, 90 or 270 is used. Any part of the external or couch lie outside of d_CollisionCheckRing	N/A	**Warning:** Please review d_PossibleCouchCollision or d_PossibleExternalCollision structures to identify if the collision represents a risk to patient safety. Please also send the plan to Mobius for a more accurate estimate of patient clearance.
Dose Recomputation	Recomputes the dose with final dose calculation if otherwise not computed	No recomputation needed	Dose was recomputed	N/A	**Warning:** Please review the new dose distribution.
Dose Algorithm	Checks that the clinical dose algorithm is used.	Clinical algorithim used.	N/A	Clinical algorithm not used.	**Failing:** Compute the final dose.
Dmax OAR Overlap	Identifies the Dmax location, warns if overlapping with any ROIs designated as OARs.	Dmax does not lie within any OARs	Dmax is not within a "Target" type structure or Dmax lies within an "Organ" type structure.	N/A	**Warning:** Review the Dmax location.