

TAMU Beam-Change Time Estimates (minutes)

Final Beam Configuration

Initial Beam Configuration	Beam	15A MeV Ne	15A MeV Ar	15A MeV Kr	15A MeV Xe	15A MeV Ho	15A MeV Ta	15A MeV Au	25A MeV Ne	25A MeV Ar	25A MeV Kr	25A MeV Xe	40A MeV Ne	40A MeV Ar	40A MeV Kr	55A MeV O	55A MeV Ar
	15A MeV Ne	0	30	30	30	30	30	50	71	71	71	70	90	90	120	179 ++	167 ++
	15A MeV Ar	30	0	30	30	30	30	50	71	71	71	70	90	90	120	179 ++	167 ++
	15A MeV Kr	30	30	0	30	30	30	50	71	71	71	70	90	90	120	179 ++	167 ++
	15A MeV Xe	30	30	30	0	30	30	50	71	71	71	70	90	90	120	179 ++	167 ++
	15A MeV Ho	68	68	68	68	0	30	50	109	109	109	90	128	128	158	217 ++	205 ++
	15A MeV Ta	68	68	68	68	30	0	50	109	109	109	90	128	128	158	217 ++	205 ++
	15A MeV Au	68	68	68	68	30	30	0	109	109	109	90	128	128	158	217 ++	205 ++
	25A MeV Ne	45	45	45	45	45	45	65	0	30	30	55	63	63	93	153 ++	140 ++
	25A MeV Ar	45	45	45	45	45	45	65	30	0	30	55	63	63	93	153 ++	140 ++
	25A MeV Kr	45	45	45	45	45	45	65	30	30	0	55	63	63	93	153 ++	140 ++
	25A MeV Xe	63	63	63	63	45	45	65	74	74	74	0	108	108	138	197 ++	185 ++
	40A MeV Ne	45	45	45	45	45	45	65	45	45	45	70	0	30	60	134 ++	122 ++
	40A MeV Ar	45	45	45	45	45	45	65	45	45	45	70	30	0	60	134 ++	122 ++
	40A MeV Kr	45	45	45	45	45	45	65	45	45	45	70	30	30	0	134 ++	122 ++
	55A MeV O	45	45	45	45	45	45	65	45	45	45	70	45	45	75	0	60 ++
	55A MeV Ar	45	45	45	45	45	45	65	45	45	45	70	45	45	75	72 ++	0

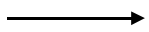


Cyclotron RF remains unchanged

++ Additional cyclotron RF tuning time may be required



Cyclotron RF remains unchanged
Cyclotron main magnetic field remains unchanged



Cyclotron RF is changed
Cyclotron main magnetic field is changed