FTWC Project Alternatives Summary			
	Safe	Unmeasured	
	Handling	Release	
Option	Met	Risk	Comment
Leave in Place	<u> </u>		
No change - continue in current configuration	N	Y	Would require +125 years for decay, including surveillance, maintenance, and ongoing risk. Pressure builds over time, increasing ultimate disposal complexity (existing venting manifold would not be an option due to pressure). Long term external insult risk.
Leave in place, with mitigation structure * 3 suboptions	N	Y	Would require +125 years for decay, including surveillance, maintenance, and ongoing risk. Structure construction risk. Pressure builds over time, increasing ultimate disposal complexity (existing venting manifold would not be an option due to pressure). Long term external insult risk.
Leave in place, with structure and capture technology. * 2 suboptions	N	Y	Would require +125 years for decay, including surveillance, maintenance, and ongoing risk. Structure construction risk. Pressure builds over time, increasing ultimate disposal complexity (existing venting manifold would not be an option due to pressure).
Place FTWC in containment vessel, then leave in place. * 2 suboptions	N	Y	Requires handling and therefore unmitigated release risk, and then >125 year surveillance. Long term external insult risk. Pressure builds over time, increasing ultimate disposal complexity (existing venting manifold would not be an option due to pressure).
Leave in place for specific duration to allow additional decay, then vent, transport, and disposition	Y	N	Increasing pressure complicates future mitigation effort, eventually eliminating safe controlled venting option.
Vent, Repackage, and Transport from Site			
Controlled venting, sorting and segregation, offsite shipment at current location * 2 suboptions	Y	Y	Greater potential for additional release. Inadequate infrastructure and safety systems.
Construct facility over containers for venting, sorting, and packaging operation in place	Y	Y	Construction activities without disturbing the containers would be extremely difficult, and likely controls would make construction impossible.
Construct portable facility at remote location, then transport and place over containers	N	Υ	Construction activities without disturbing the containers would be extremely difficult, and likely controls would make construction impossible.
Option	Safe Handling Met	Unmeasured Release Risk	Comment
Transport Without Venting			
Transport onsite in standard cargo configuration Transport onsite in remote handling configuration	N N	Y	Noncompliant transport, and risk of unmitigated/unmeasured release.
(remote handling from Area G to Tritium Facility)	IN	Ť	Noncompliant transport, and risk of unmitigated/unmeasured release.
Transport onsite in containment vessel * 3 suboptions	N	Y	Noncompliant transport. Release in vessel creates new, contaminated container. No commercially available product to address all risk factors.
Transport onsite by air	N	Υ	Noncompliant transport, and risk of unmitigated/unmeasured release.
Transport onsite by rolling roadblock	N	Y	Noncompliant transport, and risk of unmitigated/unmeasured release. No location that will accept as-is.
Transport onsite in full road closure	N	Υ	Noncompliant transport, and risk of unmitigated/unmeasured release. No location that will accept as-is.
Transport offsite in standard cargo configuration	N	Y	Noncompliant transport, and risk of unmitigated/unmeasured release. No location that will accept as-is.
Transport offsite in remote handling configuration	N	Υ	Noncompliant transport, and risk of unmitigated/unmeasured release. Significant public impact. No location that will accept as-is.
Transport offsite in containment vessel * 3 suboptions	N	Y	Noncompliant transport. Release in vessel creates new, contaminated container. No commercially available product to address all risk factors. No location that will accept as-is.
Transport offsite by air	N	Y	Noncompliant transport, and risk of unmitigated/unmeasured release. No location that will accept
Transport offsite by rolling roadblock	N	Y	as-is. Noncompliant transport, and risk of unmitigated/unmeasured release. Significant public impact. No location that will accept as-is.
Transport offsite in full road closure	N	Y	Noncompliant transport, and risk of unmitigated/unmeasured release. Significant public impact. No location that will accept as-is.
Transport to onsite location for emergency mitigation	N	Y	Noncompliant transport, and risk of unmitigated/unmeasured release in transport, then known unmitigated release during breaching operation.
Transport entire storage facility with containers inside to different location	N	Y	Same risks as transporting containers individually, with more complexity.
Move FTWCs into containment vessel, then intentionally puncture, then transport for disposal	N	N	Initial handling involves unmitigated release risk. Once in containment and punctured, can be transported safely but cannot be compliantly transported offsite, and no location will accept in non-certified container.
Move FTWCs into containment vessel, then intentionally puncture, then transport for treatment	N	N	Initial handling involves unmitigated release risk. Once in containment and punctured, can be transported safely but cannot be compliantly transported offsite, and processing the contaminated containment vessel would be extremely complex, and no location exists to do so.

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	Handling	Release	
Option	Met	Risk	Comment
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Ontion	Handling Met	Release Risk	Comment
Option Controlled venting, then transport	iviet	RISK	Comment
Vent in place, then transport offsite for further processing	Υ	N	
* 2 suboptions	, T	IN	Compliant shipping challenges. Less safe than pre-sorting, and no current offsite repackaging
2 suboptions			capability. Unmitigated release risk during transport in remote location.
Vent in place, then transport onsite for further processing	Υ	N	Perform only required venting in field, then transport to LANL tritium facility for further processing.
SELECTED OPTION		.,	Lowest risk for transport, and minimizes field activities. Preferred option.
Vent in place, then transport offsite for permanent	Υ	N	
disposal	-		Transport risk, plus no current facility will accept in unsorted condition.
Vent in place, then transport onsite for permanent	Υ	Υ	Once vented the containers can be moved on site safely, but onsite disposal at Area G with the
disposal	-	•	pressure monitoring manifold installed would not meet disposal cell requirements, and would also
			require permitting.
Vent in place, then transport to onsite storage location	Υ	N	Once vented, containers are in a safe configuration for short term transportation and therefore can
for long term storage * 2 suboptions			be transported to a location with the infrastructure for safe repackaging. Long term storage at this
			point is simply postponing disposition, when the containers can be safely processed now and
			permanently resolved.
Vent in place, then transport to offsite storage location	N	Υ	
for long term storage * 2 suboptions			Once vented, containers are in a safe configuration for short term transportation and therefore can
			be transported to a location with the infrastructure for safe repackaging. Long term storage at this
			point is simply postponing disposition, when the containers can be safely processed now and
			permanently resolved. Additionally, containers would not be compliant for offsite transport.
Vent in place with venting manifold, but with 100%	Υ	Υ	
containment (no emissions) * 2 suboptions			Design venting system with total containment. This option would require a very complex venting,
			capture, and pressure monitoring system that would require transport as a complete system once
			connected. The receiving vessel would then require mitigation. Connections, hoses, etc. could not
			be disconnected once venting operations began, and would pose significant leak risk while in
			Itransport (unmitigated release). Any version of this approach with a sampling capability would still I
			transport (unmitigated release). Any version of this approach with a sampling capability would still require the same analysis, permitting, etc.
	Safe	Unmeasured	
	Safe Handling	Unmeasured Release	
Option			
Option Onsite Disposal at Area G	Handling	Release	require the same analysis, permitting, etc.
	Handling	Release	require the same analysis, permitting, etc.
Onsite Disposal at Area G	Handling Met	Release Risk	require the same analysis, permitting, etc. Comment
Onsite Disposal at Area G	Handling Met	Release Risk	Comment Risk of unmitigated release, plus Area G not currently permitted for FTWC disposal. Adds to buried
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