

**WISCONSIN DEPARTMENT OF NATURAL RESOURCES
HAZARDOUS WASTE LICENSE APPLICATION (FPOR)
COMPLETENESS AND TECHNICAL EVALUATION CHECKLIST
GENERAL AND SPECIFIC REQUIREMENTS FOR
CONTAINERS, TANKS AND MISCELLANEOUS UNITS**

Facility Name:	Date Application Received:
FID #:	DNR Reviewer:
US EPA ID#:	Review Dates:

Use this checklist as a guide to determine if the Feasibility and Plan of Operation Report (FPOR) is complete and technically adequate for the storage or treatment of hazardous waste in containers, tanks, or miscellaneous units. The license applicant should indicate the location of the required information in the FPOR. The DNR license reviewer will review the information provided and determine if it is complete and technically adequate.

Note: More detailed information is given in the Wisconsin Administrative Code citation listed for each item. The inspection forms at <http://www.dnr.state.wi.us/org/aw/wm/publications/index.html> may also be used as a guide for AA/BB/CC requirements.

PART I - GENERAL REQUIREMENTS				
Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
Section A. General Requirements NR 670.010 to NR 670.014				
A.1. Two copies of license application submitted. NR 670.010(1)				
A.2. Appropriate plan review and license fees submitted. NR 670.010(12)				
A.3. Report signed by a president, secretary, treasurer or vice president of a corporation or other approved signatory. NR 670.011(1)				
A.4. Signature includes certification statement. NR 670.011(4)				
A.5. Claims of confidentiality are met. NR 670.012				
A.6. Summary of pre-application meeting, list of attendees/addresses and copies of written comments or materials submitted during meeting. NR 670.014(2)(v)				
A.7. Documentation showing compliance with local approval requirements. NR 670.014(2)(w)				
A.8. Complete Part A application. NR 670.013				
A.9. Technical data, such as design drawings and specifications and engineering studies are certified by WI registered PE. NR 670.014(1)				
A.10. General description of facility. NR 670.014(2)(a)				
A.11. Description of procedures, structures or equipment used to prevent hazards in unloading operations. NR 670.014(2)(h)1.				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
A.12. Description of procedures, structures or equipment used to prevent runoff from hazardous waste handling areas or to prevent flooding. NR 670.014(2)(h)2.				
A.13. Description of procedures, structures or equipment used to prevent contamination of water supplies. NR 670.014(2)(h)3.				
A.14. Description of procedures, structures or equipment used to mitigate effects of equipment failure or power outages. NR 670.014(2)(h)4.				
A.15. Description of procedures, structures or equipment used to prevent exposure of personnel. NR 670.0014(2)(h)5.				
A.16. Description of procedures, structures or equipment used to the atmosphere. NR 670.0014(2)(h)6.				
A.17. Traffic patterns, estimated traffic volume, traffic control, access road surfacing and load bearing capacity. NR 670.014(2)(j)				
A.18. Chemical and physical analyses of the hazardous waste and debris to be handled at the facility. NR 670.014(2)(b)				
A.19. Chemical and physical analyses contains all information that must be known to treat, store or dispose of the waste according to NR 664 requirements. NR 670.014(2)(b)				
A.20. Justification of any request for a waiver of the preparedness and prevention requirements of NR 664 subch. C. NR 670.014(2)(f)				
A.21. Description of precautions taken to prevent accidental ignition or reaction of ignitable, reactive or incompatible wastes, including A.22 to A.24. NR 670.014(2)(i)				
A.22. Ignitable and reactive waste is separated and protected from sources of ignition or reaction. NR 664.0017(1)				
A.23. Smoking and open flame are confined to specially designated locations when handling ignitable or reactive waste. NR 664.0017(1)				
A.24. "No Smoking" signs are conspicuously placed where there is a hazard from ignitable or reactive waste. NR 664.0017(1)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
A.25. Documentation demonstrating compliance with A.22. to A.24., including references to published scientific or engineering literature, data from trial tests, waste analysis or the results of treatment of similar waste by similar treatment under similar operating conditions. NR 664.0017(3)				
Section B. Noncompliance with Plans or Orders NR 670.014(2)(x)1.				
B.1. Identification of all persons owning ≥10% legal or equitable interest in the applicant or their assets. NR 670.014(2)(x)1.a				
B.2. Identification of all WI solid or hazardous waste facilities for which applicant or other identified person is named in or subject to a department order or plan approval. NR 670.014(2)(x)1.b.				
B.3. Identification of all WI solid or hazardous waste facilities owned by the applicant or other identified person who owns or previously owned ≥10% interest in the assets. NR670.014(2)(x)1.c.				
B.4. Statement regarding whether or not all plan approvals and orders relating to all identified facilities are being complied with. NR 670.014(2)(x)1.d.				
Section C. Environmental Impact Review NR 670.014(2)(x)2.				
C.1. Purpose, history, background, relevant local, state and federal permits or approvals and zoning changes for the project. NR 670.014(2)(x)2.a.				
C.2. Description of proposed physical changes related to terrestrial resources, such as soil placement, construction of roads, surface water drainage and sedimentation controls. NR 670.014(2)(x)2.b.1)				
C.3. Description of proposed physical changes related to aquatic resources, such as impacts to streams, wetlands or other water bodies. NR 670.014(2)(x)2.b.2)				
C.4. Description of proposed physical changes related to the construction of buildings and other structures. NR 670.014(2)(x)2.b.3)				
C.5. Description of proposed physical changes related to air emissions and water discharges during facility construction, operation and closure. NR 670.014(2)(x)2.b.4)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
C.6. Description of proposed physical changes related to any other changes anticipated with facility development. NR 670.014(2)(x)2.b.5)				
C.7. Maps, plans or other materials needed to clarify the information provided for C.2. to C.6. NR 670.014(2)(x)2.b.6)				
C.8. Description of the affects on the existing physical environment, such as topography, surface water drainage, hydrogeologic conditions, geology. NR 670.014(2)(x)2.c.1)				
C.9. Description of the affects on existing dominant aquatic and terrestrial plant and animal species and habitats. NR 670.014(2)(x)2.c.2)				
C.10. Description of the affects on existing land use, dominant features, and zoning in the area. NR 670.014(2)(x)2.c.3)				
C.11. Description of the affects on existing social and economic conditions, such as ethnic or cultural groups. NR 670.014(2)(x)2.c.4)				
C.12. Description of the affects on other existing special resources, such as archaeological, historical, state natural areas, or prime agricultural lands. NR 670.014(2)(x)2.c.5)				
C.13. Discussion of the probable adverse and beneficial physical impacts associated with facility design, construction and operation. NR 670.014(2)(x)2.d.1)				
C.14. Discussion of the probable adverse and beneficial biological impacts such as destruction and creation of habitat, alteration of physical environment and impacts to endangered or threatened species. NR 670.014(2)(x)2.d.2)				
C.15. Discussion of the probable adverse and beneficial impacts on land use. NR 670.014(2)(x)2.d.3)				
C.16. Discussion of the probable adverse and beneficial social and economic impacts to local residents, cultural groups and communities and industries served by the facility. NR 670.014(2)(x)2.d.4)				
C.17. Discussion of probable adverse and beneficial impacts on other special resources, such as archaeological, historical, state natural areas and prime agricultural lands. NR 670.014(2)(x)2.d.5)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
C.18. Discussion of probable adverse impacts that cannot be avoided, such as groundwater and surface water impacts, modifications of topography, loss of agricultural or forest land, displacement of wildlife and adverse aesthetic impacts for people in and around the facility. NR 670.014(2)(x)2.d.6)				
C.19. Identify, describe and discuss feasible alternatives such as taking no action, enlargement, reduction or modification of the project. NR 670.014(2)(x)2.e.				
C.20. Needs determination, per s. 289.28, Wis. Stat. NR 670.014(2)(x)3.				
Section D. Groundwater Protection NR 670.014(3)				
D.1. If all regulated units meet NR 664.0090(2), this Section is not applicable.				
D.2. Summary of groundwater monitoring data from interim license period. NR 670.014(3)(a)				
D.3. Uppermost aquifer and aquifers hydraulically interconnected beneath the facility property, groundwater flow direction and rate, and basis of identification. NR 670.014(3)(b)				
D.4. Topographic map delineating waste management area, property boundary, point of compliance and proposed location of monitoring wells. NR 670.014(3)(c)				
D.5. Description of contamination plume that entered the groundwater from a regulated unit at the time of the application, delineation of the extent of the plume on the topographic map and identification of hazardous constituent concentrations in the plume. NR 670.014(3)(d)				
D.6. Detailed plans and engineering report describing the proposed groundwater monitoring program to be implemented per NR 664.0097. NR 670.014(3)(e)				
D.7. If hazardous constituents have not been detected in the groundwater at the time of the license application, sufficient information, supporting data and analyses to establish a detection monitoring program which meets NR 664.0098. NR 670.014(3)(f)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
D.8. If hazardous constituents have been detected in the groundwater at the point of compliance at the time of the license application, sufficient information, supporting data and analyses to establish a compliance monitoring program meeting NR 664.0099. NR 670.014(3)(g)				
D.9. If hazardous constituents have been measured in the groundwater exceeding concentration limits in NR 664.0094 Table 1 or if groundwater monitoring conducted at the time of the license application at the waste boundary indicates the presence of hazardous waste constituents from the facility, sufficient information, supporting data and analyses to establish a corrective action program meeting NR 664.0100. NR 670.014(3)(h)				
Section E. Corrective Action and Solid Waste Management Units NR 670.014(4)				
E.1. If applicable, information regarding groundwater protection if there is a release from a SWMU. NR 670.014(3)				
E.2. Topographic map showing location of SWMU. NR 670.014(4)(a)1.				
E.3. Designate type of SWMU. NR 670.014(4)(a)2.				
E.4. General dimensions and structural description of SWMU. NR 670.014(4)(a)3.				
E.5. When the SWMU was operated. NR 670.014(4)(a)4.				
E.6. All wastes managed at the SWMU are specified. NR 670.014(4)(a)5.				
E.7. All available information pertaining to releases of hazardous waste constituents from hazardous waste units. NR 670.014(4)(b)				
E.8. Results of sampling and analysis of surface or groundwater, soil and air sampling if the department determines a RFA is necessary. NR 670.014(4)(c)				
Section F. Location Standards NR 670.014(2)(k) and NR 670.014(2)(s)				
F.1. Identify if facility is in a 100-year floodplain and source of data. NR 670.014(2)(k)3.				
F.2. Copy of federal insurance administration flood map, or calculations and maps if FIA map is not available. NR 670.014(2)(k)3.				
F.3. Identify 100-year flood level and other flooding factors (wave action) considered in design, construction, operation or maintenance of facility to withstand washout from 100 year flood. NR 670.014(2)(k)3.				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
F.4. If facility is located in 100 year flood plain, engineering analysis of various hydrodynamic and hydrostatic forces. NR 670.014(2)(k)4.a. AND				
F.5. Structural or other engineering studies showing design of operational units and flood protection devices and how they will prevent washout. NR 670.014(2)(k)4.b. OR				
F.6. Description of procedures to move hazardous waste before flooding, including timing; new approved or licensed location; resources needed; and, potential of discharge during move. NR 670.014(2)(k)4.c.				
F.7. If a facility located in a 100-year floodplain is not designed, constructed, operated and maintained to prevent washout, a demonstration that procedures in effect to move the waste safely to a location that is not vulnerable to flood waters before flood waters reach the facility. NR 664.0018(2)(a)				
F.8. If an existing facility is not in compliance with F.7., a plan and schedule to bring the facility into compliance. NR 670.014(2)(k)5.				
F.9. A dated topographic map showing a distance of 1,000 feet around the facility, with a scale of no more than 1 inch to 200 feet, and contour intervals that clearly shows pattern of surface water flow of waste management unit. NR 670.014(2)(s)				
F.10. Map shows map scale and date. NR 670.014(2)(s)1.				
F.11. Map shows 100 year flood plain area. NR 670.014(2)(s)2.				
F.12. Map shows surface waters, including intermittent streams. NR 670.014(2)(s)3				
F.13. Map shows surrounding land uses (residential, commercial, agricultural, recreational). NR 670.014(2)(s)4				
F.14. Map shows wind rose (prevailing wind speed and direction). NR 670.014(2)(s)5				
F.15. Map shows map orientation. NR 670.014(2)(s)6				
F.16. Map shows legal boundaries of the hazardous waste facility. NR 670.014(2)(s)7				
F.17. Map shows access control (fence, gates). NR 670.014(2)(s)8				
F.18. Map shows location of injection or supply wells on-site and off-site. NR 670.014(2)(s)9				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
F.19. Map shows buildings and storage, treatment or disposal operations. NR 670.014(2)(s)10.				
F.20. Map shows other structures such as recreation areas, runoff control systems, roads, sewers, loading, unloading areas, etc. NR 670.014(2)(s)10.				
F.21. Map shows barriers for drainage or flood control. NR 670.014(2)(s)11.				
F.22. Map shows location of operational units where hazardous waste will be treated, stored or disposed. NR 670.014(2)(s)12.				
F.23. Facility is not located in a wetland. NR 670.014(2)(k)6.b.				
F.24. Facility is not located in a critical habitat for threatened or endangered species. NR 670.014(2)(k)6.a.				
Section G: Waste Analysis Plan Requirements NR 670.014(2)(c)				
G.1. Procedures for obtaining chemical and physical analyses of hazardous waste managed at facility. NR 664.0013(1)(a)				
G.2. Analysis by WI certified labs. NR 664.0013(1)(a)1.				
G.3. Description of other data to be used rather than lab analysis. NR 664.0013(1)(b)				
G.4. For off-site waste, analysis upon receipt to verify waste matches description on manifest. NR 670.0013(1)(d)				
G.5. Parameters for which waste will be analyzed and rationale. NR 664.0013(2)(a)				
G.6. Test methods that will be used. NR 664.0013(2)(b)				
G.7. Sampling methods to obtain representative sample. NR 664.0013(2)(c)				
G.8. Frequency of repeating initial analysis to ensure it is accurate and up to date. NR 664.0013(2)(d)				
G.9. At a minimum, analysis is repeated if the process generating the waste has changed or when the inspection upon receiving the waste does not match the description on the manifest. NR 664.0013(1)(c).				
G.10. For off-site waste, the waste analysis generators agree to supply. NR 664.0013(2)(e)				
G.11. If ignitable, reactive or incompatible wastes are managed, the waste analysis methods used to comply with NR 664.0017(3). NR 664.0013(2)(f)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
G.12. If the facility is subject to NR 664 subch. AA standards for process vents, the test methods and procedures used to comply with NR 664.1034(4). NR 664.0013(2)(f)				
G.13. If the facility is subject to NR 664 subch. BB standards for equipment leaks, the test methods and procedures used to comply with NR 664.1063(4). NR 664.0013(2)(f)				
G.14. If the facility is subject to NR 664 subch. CC standards for containers or tanks, the waste determination procedures in NR 664.1083. NR 664.0013(2)(f)				
G.15. The testing performed to determine if the waste meets or exceeds LDR standards, as required by NR 668.07. NR 664.0013(2)(f)				
G.16. Information if seeking exemption to subch. CC requirements. NR 664.0013(2)(h)				
G.17. For off-site waste, procedures used to inspect, and if necessary, analyze each movement of waste to ensure it matches the identity of the waste designated on the manifest. NR 664.0013(3)				
Section H: Security Requirements NR 670.014(2)(d)				
H.1. Security procedures to prevent unknowing entry by a 24 hour surveillance system which continuously monitors and controls entry. NR 664.0014(2)(a) OR,				
H.2. The artificial or natural barrier surrounding active portions of facility and other means of controlled entry, such as gates or locked entrance AND NR 664.0014(2)(b)				
H.3. The placement of “Danger – Unauthorized Persons Keep Out” signs at entrances and other locations. NR 664.0014(3)				
H.4. Demonstration that the above security requirements are not necessary. NR 664.0014(1)				
I. General Inspection Requirements NR 670.014(2)(e)				
I.1. Description of the equipment and devices inspected. NR 664.0015(2)(a)				
I.2. Description of problems checked during the inspection. NR 664.0015(2)(c)				
I.3. Inspection schedule for closed vent system and control device, required by NR 664.1033. NR 670.014(2)(d)				
I.4. Inspection schedule for subch. BB pumps in light liquid service, required by NR 664.1052. NR 670.014(2)(d)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
I.5. Inspection schedule for subch. BB compressors, required by NR 664.1053. NR 670.014(2)(d)				
I.6. Inspection schedule for subch. BB pumps and valves in heavy liquid service, pressure relief devices and connectors, required by NR 664.1058. NR 670.014(2)(d)				
I.7. The inspection frequency for pumps, valves, pressure relief devices or connectors subject to subch. BB is adequate to prevent environmental or human health incidents. NR 664.0015(2)(d)				
I.8. Areas subject to spills inspected daily when in use. NR 664.0015(2)(d)				
I.9. Inspection frequency for other areas based on deterioration of equipment and probability of environmental or human health incident if problem goes undetected between inspections. NR 664.0015(2)(d)				
I.10. Schedule to remedy ensures problem does not lead to environmental or health hazard. NR 664.0015(3)				
I.11. Inspection log will be kept for at least 3 years and includes date and time of inspection; inspector name; observations made; date and type of remedial actions. NR 664.0015(4)				
Section J. Contingency Plan Requirements NR 670.014(2)(g)				
J.1. Copy of Contingency Plan. NR 670.014(2)(g)				
J.2. Plan is designed to minimize hazards to human health or the environment in the event of a release. NR 664.0051(1)				
J.3. Provisions in the plan will be carried out immediately if release threatens human health or the environment. NR 664.0051(2)				
J.4. Describes actions facility personnel will take if a release. NR 664.0052(1)				
J.5. If using SPCC, it has been amended to incorporate hazardous waste provisions. NR 664.0052(2)				
J.6. Describes arrangements with local emergency agencies, hospitals and contractors. NR 664.0052(3)				
J.7. Current list of emergency coordinator (primary and alternate) names, addresses and home/office phone numbers. NR 664.0052(4)				
J.8. Current list of emergency equipment, describing location, physical description and capability of each item. NR 664.0052(5)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
J.9. Evacuation plan, signals to begin evacuation and alternate routes. NR 664.0052(6)				
J.10. Copy of plan kept at facility and copy sent to police and fire depts., hospital, and state and local response teams. NR 664.0053				
J.11. Plan will be reviewed and amended, as necessary. NR 664.0054				
J.12. Emergency coordinator always on premises or on call. NR 664.0055				
J.13. Emergency coordinator is thoroughly familiar with plan, site operations, waste types handled, facility records and layout. NR 664.0055				
J.14. Emergency coordinator has authority to commit resources to carry out contingency plan. NR 664.0055				
J.15. Emergency coordinator activates alarms and notifies state or local agencies. NR 664.0056(1)				
J.16. Emergency coordinator identifies the character, sources, amount and extent of release. NR 664.0056(2)				
J.17. Emergency coordinator assesses possible hazards to human health and environment. NR 664.0056(3)				
J.18. Emergency coordinator notifies local authorities if evacuation is necessary. NR 664.0056(4)(a)				
J.19. Emergency coordinator notifies emergency response officials of release outside of facility. NR 664.0056(4)(b)				
J.20. Emergency coordinator takes reasonable measures to ensure fire, explosion or release do not occur or spread to other hazardous waste. NR 664.0056(5)				
J.21. Emergency coordinator monitors for leaks, pressure build-up, and gas generation if operations stop. NR 664.0056(6)				
J.22. Emergency coordinator arranges for treatment, storage, or disposal of materials after emergency. NR 664.0056(7)				
J.23. Emergency coordinator ensures no incompatible waste is treated, stored or disposed until cleanup is completed. NR 664.0056(8)(a)				
J.24. Emergency coordinator ensures all emergency equipment is clean and fit for use before operations resume. NR 664.0056(8)(b)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
J.25. Owner or operator notifies department and state and local authorities before resuming operations. NR 664.0056(9)				
J.26. Implementation of plan will be noted in operating log and incident report sent to WDNR in 15 days. NR 664.0056(10)				
Section K. Training Plan Requirements NR 670.014(2)(L)				
K.1. Outline of both introductory and continuing training programs to prepare persons to operate or maintain facility in a safe manner. NR 670.014(2)(L)				
K.2. Training program teaches personnel hazardous waste management procedures relevant to the positions in which they are employed. NR 664.0016(1)(b)				
K.3. Training program ensures facility personnel can respond effectively to emergencies by familiarizing them with emergency procedures, equipment and systems. NR 664.0016(1)(c)				
K.4. Personnel complete training within 6 months of being in new position and before working in unsupervised positions. NR 664.0016(2)				
K.5. Training documentation includes job title, job description, type and amount of training to be given and training that is completed. NR 664.0016(4)				
K.6. Brief description of how training will be designed to meet actual job tasks. NR 670.014(2)(L)				
L. Closure Plan Requirements NR 670.014(2)(m)				
L.1. Copy of Closure Plan. NR 670.014(2)(m)				
L.2. Description of how each unit will close during partial or final closure to minimize the need for further maintenance. NR 664.0112(2)(a)				
L.3. Description of how each unit will close during partial or final closure to control, minimize or eliminate post-closure escape of hazardous waste constituents. NR 664.0112(2)(a)				
L.4. Description of the maximum extent of operations during the active life of the facility. NR 664.0112(2)(b)				
L.5. Estimate of maximum inventory during active life of facility. NR 664.0112(2)(c)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
L.6. Description of methods used to remove, transport, treat, store, and dispose of all hazardous waste during partial and final closure. NR 664.0112(2)(c)				
L.7. Identification of the types of off-site hazardous waste management units to be used. NR 664.0112(2)(c)				
L.8. Detailed description of steps needed to remove or decontaminate all hazardous waste residues and contaminated equipment, structures and soils during partial and final closure. NR 664.0112(2)(d)				
L.9 Detailed description of other activities necessary to ensure all partial and final closures satisfy the closure performance standards. NR 664.0112(2)(e)				
L.10. During closure of container areas, all hazardous waste and residues will be removed from the containment system; remaining contaminated structures and soil will be decontaminated or removed. NR 664.0178				
L.11. During closure of tank systems, all waste residues, contaminated containment system components, soils, structures and equipment is decontaminated or removed. NR 664.0197(1)				
L.12. Schedule for closure of each hazardous waste management unit and final closure of the facility. NR 664.0112(2)(f)				
L.13. The estimated year of final closure if the financial mechanism is a trust fund and the facility expects to close before the operating license expires. NR 664.0112(2)(g)				
L.14. Alternative requirements for closure established by the department. NR 664.0112(2)(h)				
L.15. Department will be notified at least 180 days prior to partial or final closure. NR 664.0112(4)(a)				
L.16. Within 90 days of receiving the final volume of hazardous waste, all hazardous waste is treated, or removed from the unit or facility. NR 664.0113(1)				
L 17. Partial and final closure activities are completed within 180 days after receiving the final volume of hazardous waste. NR 664.0113(2)				
L.18. All contaminated equipment, structures, and soils will be properly disposed of or decontaminated. NR 664.0114				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
L.19. Within 60 days of completing final closure, a certification of closure will be sent to the department. NR 664.0115				
Section M: Closure cost estimate and financial responsibility NR 670.014(2)(o)				
M.1. The most recent detailed written closure cost estimate in current dollars for closing the facility in accordance with the approved closure plan. NR 664.0142(1)				
M.2. Cost estimate equals the cost of final closure when facility operations make closure the most expensive. NR 664.0142(1)(a)				
M.3. Cost estimate is based on hiring a third party to close the facility. NR 664.0142(1)(b)				
M.4. Cost estimate does not incorporate any salvage value of hazardous waste, structures, equipment, land or assets. NR 664.0142(1)(c)				
M.5. Closure estimate does not include a zero cost for hazardous waste that might have economic value. NR 664.0142(1)(d)				
M.6. Facility has established financial assurance that covers the closure cost estimate. NR 664.0143				
M.7. The financial assurance mechanism meets all applicable requirements in NR 664.0143.				
M.8. If a new facility, the financial assurance is submitted 60 days prior to initial receipt of waste. NR 670.014(2)(o)				
Section N: Pollution Liability Insurance NR 670.014(2)(q)				
N.1. Copy of the insurance policy or other documentation demonstrating liability coverage. NR 670.014(2)(q)				
N.2. Financial responsibility covers bodily injury and property damage to third parties caused by sudden accidental occurrences arising from operations of the facility. NR 664.0147(1)				
N.3. Coverage for sudden accidental occurrences of at least \$1 million per occurrence with annual aggregate of at least \$2 million. NR 664.0147(1)				
N.4. If a new facility, documentation showing the amount of insurance to be in place before the initial receipt of waste. NR 670.014(2)(q).				
PART 2 – UNIT SPECIFIC REQUIREMENTS				

Licensing Standard and Code Citation	Location In Report (Page Or Section)	Complete (Y/N)	Technically Adequate (Y/N)	Comments
Section A: Container Standards – Inspections NR 670.014(2)(e)				
A.1. Container storage areas inspected at least weekly for leaking containers and the deterioration of containers and containment system. NR 664.0174				
A.2. Inspection frequency of container storage areas is adequate to prevent environmental or human health incident. NR 664.0015(2)(d)				
A.3. Inspection schedule for subch. CC containers, as required by 664.1086. NR 670.014(2)(e)				
A.4. Inspection schedule includes inspection and monitoring requirements in NR 664.1088 for containers. NR 670.014(2)(e)				
A.5. The inspection frequencies required by subch. CC for containers are adequate to prevent environmental or human health incidents. NR 664.0015(2)(d)				
Section B. Container Standards – Containment NR 670.015(1)				
B.1. Base of containment system is designed and operated to be free of cracks or gaps and sufficiently impervious to leaks and precipitation until material is removed. NR 664.0175(2)(a)				
B.2. Base is sloped or containment system is designed and operated to drain and remove liquids from leaks or precipitation OR containers are elevated or otherwise protected from contacting accumulated liquids. NR 664.0175(2)(b)				
B.3. Capacity of containment system is 10% of the volume of containers or the volume of the largest container, which ever is greater. Containers without free liquids need not be considered. NR 664.0175(2)(c)				
B.4. Run-on into the containment system is prevented unless the containment system has sufficient excess capacity to contain it. NR 664.0175(2)(d)				
B.5. Spilled waste and precipitation are removed from sump or collection area in a timely manner to prevent overflow. NR 664.0175(2)(e)				
B.6. The design and operation of the containment structure complies with B.1. to B.5. for containers of F020-F023 and F026-F027 wastes that do not contain free liquids. NR 664.0175(4)				
B.7. Description of basic design parameters, dimensions and materials of construction of the containment system. NR 670.015(1)(a)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete ? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
B.8. Description of how the design of the containment system promotes drainage or how containers are kept from contacting standing liquids. NR 670.015(1)(b)				
B.9. Description of the capacity of the containment system relative to the number and volume of containers to be stored. NR 670.015(1)(c)				
B.10. Provisions for preventing or managing run-on. NR 670.015(1)(d)				
B.11. How accumulated liquids will be analyzed and removed to prevent overflow. NR 670.015(1)(e)				
B.12. Other than B.6., if all containers do not contain free liquids, either the storage area is sloped or otherwise designed to drain and remove precipitation; or, the containers are elevated or otherwise protected from contact with accumulated liquid. NR 670.015(2)				
B.13. Test procedures and results or other documentation or information showing waste in B.12. does not contain free liquids. NR 670.015(2)(a)				
B.14. Description of how the storage area for waste in B.12. is designed or operated to drain and remove liquids, or how containers with no free liquids are kept from contacting standing liquids. NR 670.015(2)(b)				
Section C: Container Standards – Incompatible, Reactive, Ignitable Waste NR 670.015(3) and NR 670.015(4)				
C.1. Sketches, drawings or data demonstrating containers of ignitable or reactive waste are located at least 50 feet from the facility property line. NR 664.0176				
C.2. Sketches, drawings or data demonstrating storage containers of hazardous waste that are incompatible with other waste or materials stored nearby in other containers, piles or open tanks are separated or protected by a dike, berm, wall or other device. NR 664.0177(3)				
C.3. Description of procedures to ensure incompatible wastes are not placed in the same container unless the requirements in C.4. to C.10. are met. NR 670.0015(4)				
C.4. Precautions taken to prevent reactions generating extreme heat or pressure, fire or explosions or violent reactions. NR 664.0017(2)(a)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete ? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
C.5. Precautions taken to prevent reactions producing uncontrolled toxic mists, fumes, dusts or gases in sufficient quantities to threaten human health or the environment. NR 664.0017(2)(b)				
C.6. Precautions taken to prevent reactions producing uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosion. NR 664.0017(2)(c)				
C.7. Precautions taken to prevent reactions damaging the structural integrity of the device or facility. NR 664.0017(2)(d)				
C.8. Precautions taken to prevent reactions through other means to threaten human health or the environment. NR 664.0017(2)(e)				
C.9. Documentation of compliance with C.4. to C.8., based on references to published scientific or engineering literature, data from trial tests, waste analyses or the results of treatment of similar wastes or similar treatment processes and under similar operating conditions. NR 664.0017(3)				
C.10. Description of procedures to ensure hazardous waste is not placed in an unwashed container that previously held an incompatible waste or material. NR 664.0177(2)				
Section D: Tank Standards – General NR 670.016				
D.1. Dimensions and capacity of each tank. NR 670.016(2)				
D.2. Description of feed systems, safety cutoff, bypass systems and pressure controls. NR 670.016(3)				
D.3. Diagram of piping, instrumentation and process flow for each tank system. NR 670.016(4)				
D.4. Description of spill prevention controls, such as check valves, dry disconnect couplings. NR 664.0194(2)(a)				
D.5. Description of overfill prevention controls, such as level sensing devices, high level alarms, automatic feed cutoff or bypass to a standby tank. NR 664.0194(2)(b)				
D.6. Description of how sufficient freeboard in uncovered tanks will be maintained to prevent overtopping by wave or wind action or precipitation. NR 664.0194(2)(c)				
Section E: Tank Standards – Inspections NR 670.014(2)(e)				
E.1. Inspection schedule for tank overfill controls. NR 664.0195(1).				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete ? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
E.2. Aboveground portions of tank systems inspected at least once each operating day to detect corrosion or releases of waste. NR 664.1095(2)(a)				
E.3. Construction materials and area immediately surrounding tank systems inspected at least once each operating day to detect erosion or signs of releases. NR 664.1095(2)(c)				
E.4. Data gathered from monitoring and leak detection equipment inspected at least once each operating day to ensure the tank system is operated according to design. NR 664.1095(2)(b)				
E.5. Proper operation of the cathodic protection system is confirmed by inspection within 6 months of initial installation and annually thereafter. NR 664.1095(3)(a)				
E.6. All sources of impressed current inspected and/or tested, as appropriate, at least every other month. NR 664.1095(3)(b)				
E.7. Inspection schedule for subch. CC tank requirements, as stated in 664.1084 and 664.1088. NR 670.014(2)(e)				
E.8. Inspection frequencies required by subch. CC for tanks are adequate to prevent environmental or human health incidents. NR 664.0015(2)(d)				
Section F: Tank Standards – Existing Tanks NR 670.016(1)				
F.1. For each tank system installed before March 1, 1991, a written assessment reviewed and certified by an independent, qualified, registered PE as to the structural integrity and suitability for handling hazardous waste which includes the information in F.2. to F.8. NR 670.016(1)				
F.2. Design standards for construction of the tank and ancillary equipment. NR 664.0191(2)(a)				
F.3. Hazardous characteristics for the wastes handled. NR 664.0191(2)(b)				
F.4. Existing corrosion protection measures. NR 664.0191(2)(c)				
F.5. The age of the tank system, either documented or estimated. NR 664.0191(2)(d)				
F.6. Results of a leak test, internal inspection or other tank integrity examination. NR 664.0191(2)(e)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete ? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
F.7. If underground tanks cannot be entered, a leak test capable of taking into account the effects of temperature variations, tank end deflection, vapor pockets and high water table effects. NR 664.0191(2)(e)1.				
F.8. If other tanks cannot be entered, a leak test or other integrity examination certified by a PE that addresses cracks, leaks, corrosion, and erosion. NR 664.0191(2)(e)2.				
F.9. If, as a result of the assessment, the tank was found to be leaking or unfit for use, steps were taken to comply with F.10. to F.22. NR 664.0191(4)				
F.10. Tank system or secondary containment system removed from service immediately. NR 664.0196				
F.11. Flow of hazardous waste into the tank system or secondary containment system stopped immediately and the system inspected to determine the cause of the release. NR 664.0196(1)				
F.12. If the release was from the tank system, as much waste as necessary was removed to prevent further releases and to allow inspection and repair of the tank system within 24 hours after detection or at the earliest practicable time. NR 664.0196(2)(a)				
F.13. If the material was released to a secondary containment system, all released material was removed within 24 hours or in a timely manner to prevent harm to human health and the environment. NR 664.0196(2)(b)				
F.14. Visual inspection of the release conducted. NR 664.0196(3)				
F.15. Further migration of the spill to soils or surface water was prevented. NR 664.0196(3)(a)				
F.16. Visible contamination of the soil or surface water was removed and properly disposed. NR 664.0196(3)(b)				
F.17. Release reported to the Department within 24 hours of its detection, unless less than one pound was released and material was contained and cleaned up immediately. NR 664.0196(4)				
F.18. Written report submitted to the Department within 30 days of detecting the release. NR 664.0196(4)(c)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete ? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
F.19. System was returned to service after cleanup and repairs if the integrity of the tank system was not damaged. NR 664.0196(5)(b)				
F.20. If the leak was from the tank system into secondary containment, the system was repaired before the tank was returned to service. NR 664.0196(5)(c)				
F.21. If the leak was from a component that did not have secondary containment, either secondary containment will be provided or repairs are made if the component can be visually inspected. NR 664.0196(5)(d)				
F.22. If major repairs were made, a PE certification was submitted to the Department within 7 days of returning the tank system to use. NR 664.0196(6)				
Section G: Tank Standards – New Tanks NR 670.016(1) and NR 670.016(6)				
G.1. For each new tank system, a written assessment reviewed and certified by an independent, qualified, registered PE as to the structural integrity and suitability for handling hazardous waste which includes the information in G.2. to G.19. NR 670.016(1)				
G.2. Design standards to which the tanks and ancillary equipment are constructed. NR 664.0192(1)(a)				
G.3. Hazardous characteristics of the wastes to be handled. NR 664.0192(1)(b)				
G.4. If the external shell of the metal tank or any external metal component of the tank system will be in contact with soil or water, a determination by a corrosion expert of factors affecting the potential for corrosion, including G.5. to G.9, at a minimum. NR 664.0192(1)(c)				
G.5. Soil moisture content, pH, sulfides level, and resistivity. NR 664.0192(1)(c)1				
G.6. Structure to soil potential. NR 664.0192(1)(c)1				
G.7. Influence of nearby underground metal structures, such as piping. NR 664.0192(1)(c)1				
G.8. Existence of stray electric current. NR 664.0192(1)(c)1				
G.9. Existing corrosion-protection measures. NR 664.0192(1)(c)1				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete ? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
G.10. A description of materials and equipment used to provide external corrosion protection to ensure the integrity of the tank system during its use, including one or more of those in G.11 to G.13. NR 664.0192(1)(c)2				
G.11. Corrosion-resistant materials of construction such as special alloys, fiberglass, reinforced plastic, etc. NR 664.0192(1)(c)2.a.				
G.12. Corrosion-resistant coating with cathodic protection. NR 664.0192(1)(c)2.b.				
G.13. Electrical isolation devices such as insulating joints, flanges, etc. NR 664.0192(1)(c)2.c.				
G.14. For underground tank system components that are likely to be adversely affected by vehicular traffic, the design or operational measures that will protect the tank system against potential damage. NR 664.0192(1)(d)				
G.15. Design considerations to ensure tank foundations will maintain the load of a full tank. NR 664.0192(1)(e)1.				
G.16. Design considerations to ensure tank systems will be anchored to prevent flotation or dislodgment when the tank system is placed in a saturated zone. NR 664.0192(1)(e)2.				
G.17. Design considerations to ensure tank systems will withstand the effects of frost heave. NR 664.0192(1)(e)3.				
G.18. Foundation, structural support, seams, connections and pressure controls, if needed, are adequately designed to ensure the tank system will not collapse, rupture or fail. NR 664.0192(1)				
G.19. The tank system has sufficient structural strength, compatibility with the wastes to be stored or treated and corrosion protection to ensure it will not collapse, rupture or fail. NR 664.0192(1)				
G.20. A detailed description of how the tank systems will be installed in compliance with G.21. to G.28. NR 670.016(6)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete ? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
G.21. Before covering, enclosing or placing a new tank system or component in use, an independent qualified installation inspector or registered PE who is trained and experienced in the proper installation of tank systems or components will inspect the system for the presence of weld breaks, punctures, scrapes of protective coatings, cracks, corrosion and other structural damage or inadequate construction or installation. NR 664.0192(2)				
G.22. All structural damage or inadequate construction or installation will be remedied before the tank system is covered, enclosed or placed in use. NR 664.0192(2)				
G.23. For tank systems or components placed underground, the backfill material is noncorrosive, porous and homogeneous, installed so the backfill is placed completely around the tank, and compacted to ensure the tank and piping are fully and uniformly supported. NR 664.0192(3)				
G.24. All tanks and ancillary equipment will be tightness tested before being covered, enclosed or placed in use. NR 664.0192(4)				
G.25. If the tank system is found not to be tight, all repairs necessary to remedy the leaks in the system will be performed before the tank system is covered, enclosed or placed into use. NR 664.0192(4)				
G.26. Ancillary equipment is supported and protected against physical damage and excessive stress due to settlement, vibration, expansion or contraction. NR 664.0192(5)				
G.27. The type and degree of corrosion protection recommended by an independent corrosion expert is provided. NR 664.0192(6)				
G.28. If field fabricated, a corrosion expert will supervise the installation of the corrosion protection system to ensure proper installation. NR 664.0192(6)				
Section H: Tank Standards – Secondary Containment NR 670.016(7) and NR 670.016(8)				
H.1. Detailed plans and description of how the secondary containment system for each tank system meets the requirements stated in H.2. to H.9. NR 670.016(7)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete ? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
H.2. Designed, constructed and operated to prevent the migration of wastes or accumulated liquid out of the system to the soil, groundwater or surface water at any time during use of the tank system. NR 664.0193(2)(a)				
H.3. Designed, constructed and operated to detect and collect releases and accumulated liquid until the material is removed. NR 664.0193(2)(b)				
H.4. Constructed of or lined with materials that are compatible with the wastes to be placed in the tank system. NR 664.0193(3)(a)				
H.5. Has sufficient strength and thickness to prevent failure due to pressure gradients, physical contact with the waste, climatic conditions and stress of daily operation. NR 664.0193(3)(a)				
H.6. Placed on a foundation or base capable of providing support and resistance to pressure gradients above and below the system, and preventing failure due to settlement, compression or uplift. NR 664.0193(3)(b)				
H.7. Provided with a leak detection system designed and operated to detect the failure of either the primary or secondary containment structure or the presence of any release of hazardous waste or accumulated liquid in the secondary containment system within 24 hours or at the earliest practicable time unless demonstrated that existing detection technologies or site conditions will not allow detection of a release within 24 hours. NR 664.0193(3)(c)				
H.8. Sloped or otherwise designed or operated to drain and remove liquids resulting from leaks, spills or precipitation. NR 664.0193(3)(d)				
H.9. Spilled or leaked waste and accumulated precipitation will be removed from the secondary containment system within 24 hours or in a timely manner that prevents harm to human health and the environment if demonstrated that the material cannot be removed in 24 hours. NR 664.0193(3)(d)				
H.10. Detailed plans and description of how an external liner system for each tank system meets the requirements stated in H.11. to H.14. NR 670.016(7)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete ? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
H.11. Designed or operated to contain 100% of the capacity of the largest tank within its boundary. NR 664.0193(5)(a)1.				
H.12. Designed or operated to prevent run-on or infiltration of precipitation into the external liner system unless the collection system has sufficient excess capacity to contain run-on or infiltration from a 25 year, 24 hour rainfall event. NR 664.0193(5)(a)2.				
H.13. Free of cracks and gaps. NR 664.0193(5)(a)3.				
H.14. Designed and installed to surround the tank completely and cover all surrounding earth likely to come into contact with the waste if a release from the tank (capable of preventing lateral and vertical migration of waste). NR 664.0193(5)(a)4.				
H.15. Detailed plans and description of how a vault system for each tank system meets the requirements stated in H.16. to H.21. NR 670.016(7)				
H.16. Designed or operated to contain 100% of the capacity of the largest tank within its boundary. NR 664.0193(5)(b)1.				
H.17. Designed or operated to prevent run-on or infiltration of precipitation into the vault system unless the collection system has sufficient excess capacity to contain run-on or infiltration from a 25 year, 24 hour rainfall event. NR 664.0193(5)(b)2.				
H.18. Constructed with chemical-resistant water stops in place at all joints. NR 664.0193(5)(b)3.				
H.19. Provided with an impermeable interior coating or lining compatible with the stored waste to prevent migration of waste into the concrete. NR 664.0193(5)(b)4.				
H.20. Provided with a means to protect against the formation and ignition of vapors within the vault, if the waste stored or treated is ignitable waste or reactive waste capable of forming ignitable or explosive vapor. NR 664.0193(5)(b)5.				
H.21. Provided with an exterior moisture barrier or otherwise designed or operated to prevent migration of moisture into the vault if it is subject to hydraulic pressure. NR 664.0193(5)(b)6.				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete ? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
H.22. Detailed plans and description of how a double-walled tank system for each tank system meets the requirements stated in H.23. to H.25. NR 670.016(7)				
H.23. Designed as an integral structure so that the outer shell contains any release from the inner tank. NR 664.0193(5)(c)1.				
H.24. Protected, if constructed of metal, from both corrosion of the primary tank interior and of the external surface of the outer shell. NR 664.0193(5)(c)2.				
H.25. Provided with a built-in continuous leak detection system capable of detecting a release within 24 hours or at the earliest practicable time if demonstrated that existing detection technology or site conditions would not allow detection of a release within 24 hours. NR 664.0193(5)(c)3.				
H.26. Detailed plans and description of how ancillary equipment for each tank system will be provided with secondary containment except for aboveground piping; welded flanges, joints and connections; sealless or magnetic coupling pumps and sealless valves; and, pressurized aboveground piping systems with automatic shut-off devices that are visually inspected for leaks on a daily basis. NR 664.0193(6)				
H.27. If seeking an alternative to the requirements of this section, detailed plans and engineering and hydrogeologic reports describing alternate design and operating practices; and, an evaluation of location characteristics which demonstrate the migration of hazardous waste or constituents into groundwater or surface water during the life of the facility is prevented. NR 670.016(8)(a)				
H.28. If seeking an alternative to the requirements of this section, a detailed assessment of the substantial present or potential hazards posed to human health or the environment should a release enter the environment. NR 670.016(8)(b)				
Section I: Tank Standards – Ignitable, Reactive and Incompatible Wastes NR 670.016(10)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete ? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
I.1. If ignitable or reactive waste is treated, rendered or mixed before or immediately after placement in the tank system, a description of how operating procedures and tank system and facility design will ensure the resulting waste, mixture or dissolved material no longer meets the definition of ignitable or reactive waste. NR 664.0198(1)(a)1.				
I.2. If ignitable or reactive waste is treated, rendered or mixed before or immediately after placement in the tank system, a description of how operating procedures and tank system and facility design will ensure I.3. to I.7. will be met. NR 664.0198(1)(a)2.				
I.3. Precautions taken to prevent reactions generating extreme heat or pressure, fire or explosions or violent reactions. NR 664.0017(2)(a)				
I.4. Precautions taken to prevent reactions producing uncontrolled toxic mists, fumes, dusts or gases in sufficient quantities to threaten human health or the environment. NR 664.0017(2)(b)				
I.5. Precautions taken to prevent reactions producing uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosion. NR 664.0017(2)(c)				
I.6. Precautions taken to prevent reactions damaging the structural integrity of the device or facility. NR 664.0017(2)(d)				
I.7. Precautions taken to prevent reactions which, through other means, threaten human health or the environment. NR 664.0017(2)(e)				
I.8. Documentation demonstrating compliance with I.2. to I.7., including references to published scientific or engineering literature, data from trial tests, waste analysis or the results of treatment of similar waste by similar treatment under similar operating conditions. NR 664.0017(3)				
I.9. If ignitable or reactive waste is placed in the tank system, an alternative to I.2. to I.8. is to provide a description of how operating procedures and tank system and facility design will ensure the waste is stored or treated in such a way that it is protected from any material or conditions that may cause the waste to ignite or react. NR 664.0198(1)(b)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete ? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
I.10. If ignitable or reactive waste is placed in the tank system, an alternative to I.2 to I.8 or I.9. is to provide a description of how operating procedures, the tank system and facility design will ensure the tank system is used solely for emergencies. NR 664.0198(1)(c)				
I.11. If the facility stores or treats ignitable or reactive waste in a tank, demonstrate compliance with the requirements to maintain protective distances between the waste management area and any public ways, streets, alleys or an adjoining property line that can be built upon, as required by Tables 2-1 to 2-6 of NFPA's "Flammable and Combustible Liquids Code. NR 664.0198(2)				
I.12. Incompatible wastes are not placed in the same tank system unless the requirements in I.3. to I.8. are met. NR 664.0199(1)				
I.13. Hazardous waste is not placed in a tank system that previously held an incompatible waste and has not been decontaminated unless the requirements of I.3. to I.8. are met. NR 664.0199(2)				
Section J: Standards for Miscellaneous Units – Storage and Treatment NR 670.023				
J.1. Detailed description of the unit being used or proposed for use. NR 670.023(1)				
J.2. Detailed description of the physical characteristics, materials of construction and dimensions of the unit. NR 670.023(1)(a)				
J.3. Detailed plans and engineering reports describing how the unit will be located, designed, constructed, operated, maintained, monitored, inspected and closed to comply with J.4. to J.34. NR 670.023(1)(b)				
J.4. Prevention of releases that may have adverse effects on human health or the environment due to migration of waste constituents in the groundwater or subsurface environment, considering items J.5. to J.13. NR 664.0601(1)				
J.5. The volume and physical and chemical characteristics of the waste in the unit, including potential for migration through soil, liners or other containing structures. NR 664.0601(1)(a)				
J.6. The hydrologic and geologic characteristics of the unit and surrounding area. NR 664.0601(1)(b)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete ? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
J.7. The existing quality of groundwater, including other sources of contamination and their cumulative impact on groundwater. NR 664.0601(1)(c)				
J.8. Quantity and direction of groundwater flow. NR 664.0601(1)(d)				
J.9. Proximity to and withdrawal rates of current and potential groundwater users. NR 664.0601(1)(e)				
J.10. Patterns of land use in the region. NR 664.0601(1)(f)				
J.11. Potential of migration or deposition of waste constituents into subsurface physical structures and into the root zone of food-chain crops and other vegetation. NR 664.0601(1)(g)				
J.12. Potential for health risks caused by human exposure to waste constituents. NR 664.0601(1)(h)				
J.13. Potential for damage to domestic animals, wildlife, crops, vegetation and physical structures caused by exposure to waste constituents. NR 664.0601(1)(i)				
J.14. Prevention of any releases that may have adverse effects on human health or the environment due to migration of waste constituents in surface water, wetlands, or on soil surface, considering J.15.- J.25. NR 664.0601(2)				
J.15. Volume and physical and chemical characteristics of the waste in the unit. NR 664.0601(2)a.				
J.16. Effectiveness and reliability of containing, confining and collecting systems and structures in preventing migration. NR 664.0601(2)b.				
J.17. Hydrologic characteristics of the unit and the surrounding area, including the topography of the land around the unit. NR 664.0601(2)c.				
J.18. Precipitation patterns in the region. NR 664.0601(2)d.				
J.19. Quantity, quality and direction of groundwater flow. NR 664.0601(2)e.				
J.20. Proximity of the unit to surface waters NR 664.0601(2)f.				
J.21. Current and potential uses of nearby surface waters and any water quality standards established for those surface waters. NR 664.0601(2)g.				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete ? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
J.22. Existing quality of surface waters and surface soils, including other sources of contamination and their cumulative impact on surface waters and surface soils. NR 664.0601(2)(h)				
J.23. Land use patterns in the region. NR 664.0601(2)(i)				
J.24. Potential for health risks caused by human exposure to waste constituents. NR 664.0601(2)(j)				
J.25. Potential for damage to domestic animals, wildlife, crops, vegetation and physical structures caused by exposure to waste constituents. NR 664.0601(2)(k)				
J.26. Prevention of releases that may have adverse effects on human health or the environment due to migration of waste constituents in the air, considering J.27. to J.33. NR 664.0601(3)				
J.27. Volume, physical and chemical characteristics of the waste in the unit, including its potential for the emission and dispersal of gases, aerosols and particulates. NR 664.0601(3)a.				
J.28. Effectiveness and reliability of systems and structures to reduce or prevent emissions of hazardous constituents to the air. NR 664.0601(3)b.				
J.29. Operating characteristics of the unit. NR 664.0601(3)c.				
J.30. Atmospheric, meteorologic and topographic characteristics of the unit and the surrounding area. NR 664.0601(3)d.				
J.31. Existing quality of the air, including other sources of contamination and their cumulative impact on the air. NR 664.0601(3)e.				
J.32. Potential for health risks caused by human exposure to waste constituents. NR 664.0601(3)f.				
J.33. Potential for damage to domestic animals, wildlife, crops, vegetation and physical structures caused by exposure to waste constituents. NR 664.0601(3)g.				
J.34. Inspection procedures and frequencies minimize or prevent releases that may have adverse effects on human health or the environment. NR 664.0602				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete ? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
J.35. Detailed hydrologic, geologic and meteorologic assessments and land-use maps for the region surrounding the site that address and ensure compliance of the unit with each factor in J.4. to J.33. NR 670.023(2)				
J.36. Only preliminary hydrologic, geologic and meteorologic assessments are submitted if the applicant demonstrates they do not violate the environmental performance standards in J.4. to J.33. NR 670.023(2)				
J.37. Information on the potential pathways of exposure of humans or environmental receptors to hazardous waste constituents and the potential magnitude and nature of exposures. NR 670.023(3)				
J.38. For treatment units, a report on a demonstration of the effectiveness of the treatment based on laboratory or field data. NR 670.023(4)				
J.39. Additional information necessary to evaluate if the unit complies with the environmental performance standards in J.4 to J.33., as determined by the department. NR 670.023(5)				
J.40. If an existing miscellaneous unit located in a 100-year floodplain is not designed, constructed, operated and maintained to prevent washout, a demonstration that no adverse effects on human health or the environment will result if washout occurs, considering the volume and physical and chemical characteristics of the waste, and the concentrations and potential impacts of hazardous constituents on surface waters, sediments or soils. NR 664.0018(2)(a)2.				
J.41. If an existing miscellaneous unit is not in compliance with J.40. and there are no procedures to move the waste to a location that is not vulnerable to flood waters, a plan and schedule to bring the facility into compliance. NR 670.014(2)(k)5.				
Section K: Subch. AA – Air Emission Control Standards for Process Vents NR 670.024				
K.1. Documentation of compliance with the process vent standards in NR 664.1032, including K.2. to K.6. NR 670.024(2)				
K.2. A facility plot plan and information identifying the hazardous waste management units in the facility, the approximate location of each affected hazardous waste management unit in the facility and all affected process vents. NR 670.024(2)(a)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete ? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
K.3. Information on annual throughput and operating hours of each affected unit, estimated emission rates for each affected vent and the overall facility. NR 670.024(2)(a)				
K.4. Information and data supporting estimates of vent emissions and emission reduction achieved by add-on control devices based on engineering calculations or source tests. NR 670.024(2)(b)				
K.5. Estimates of vent emissions and emission reductions are made using operating parameter values that represent the conditions that exist when the waste management unit is operating at the highest load or capacity level reasonably expected to occur. NR 670.024(2)(b)				
K.6. Information and data used to determine whether or not a process vent is subject to NR 664.1032. NR 670.024(2)(c)				
K.7. Documentation of compliance with NR 664.1033, including information in K.8 to K.13. NR 670.024(4)				
K.8. List of all information references and sources used in preparing the documentation. NR 670.024(4)(a)				
K.9. Records, including the dates of each compliance test required by NR 664.1033(11). NR 670.024(4)(b)				
K.10. Design analysis, specifications, drawings, schematics, and piping and instrumentation diagrams based on APTI Course 41.5 or other acceptable references. NR 670.024(4)(c)				
K.11. Design analysis addresses the vent stream characteristic and control device operation parameters specified in NR 664.1035(2)(d). NR 670.024(4)(c)				
K.12. Statement signed and dated by the owner/operator certifying the operating parameters used in the design analysis reasonably represent conditions that exist when the unit operates at the highest capacity reasonably expected to occur. NR 670.024(4)(d)				
K.13. Statement signed and dated by the owner/operator certifying the control device for the affected process vents is designed to operate at the required efficiency levels. NR 670.024(4)(e)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete ? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
K.14. If applying to use an alternate control device, a performance test plan if using test data. NR 670.024(3)				
Section L: Subch. BB – Air Emission Control Standards for Equipment NR 670.025				
L.1. For each piece of equipment subject to subch. BB, the information in L.2. to L.7. NR 670.025(1)				
L.2. Equipment identification number and hazardous waste management unit identification. NR 670.025(1)(a)				
L.3. Approximate location within the facility, as identified on a facility plot plan. NR 670.025(1)(b)				
L.4. Type of equipment. NR 670.025(1)(c)				
L.5. Percent by weight total organics in the hazardous waste stream at each piece of equipment. NR 670.025(1)(d)				
L.6. Hazardous waste state (gas, vapor, etc.) at each piece of equipment. NR 670.025(1)(e)				
L.7. Method of compliance with the applicable subch. BB standard. NR 670.025(1)(f)				
L.8. Documentation demonstrating compliance with the equipment standards in NR 664.1052 to 664.1059, including records required by NR 664.1064. NR 670.025(4)				
L.9. Additional documentation necessary to determine compliance with the subch. BB standards. NR 670.025(4)				
L.10. Documentation demonstrating compliance with NR 664.1060 includes the information in L.11 to L.17. NR 670.025(5)				
L.11. List of all information references and sources used to prepare the documentation. NR 670.025(5)(a)				
L.12. Records, including the dates, of each compliance test required by NR 664.1033(10). NR 670.025(5)(b)				
L.13. Design analysis, specifications, drawings, schematics and piping and instrumentation diagrams based on the appropriate sections of ATPI Course 415 or other engineering text that present basic control device design information. NR 670.025(5)(c)				
L.14. Design analysis addresses the vent stream characteristics and control device operation parameters in NR 664.1035(2)(d)3. NR 670.025(5)(c)				

Licensing Standard and Code Citation	Location In Report (Page, Section or N/A)	Complete ? (Y/N/N/A)	Technically Adequate? (Y/N/N/A)	Comments
L.15. Statement signed and dated by the owner/operator certifying the operating parameters used in the design analysis reasonably represent the conditions when the unit is operating at the highest capacity level reasonably expected to occur. NR 670.025(5)(d)				
L.16. Statement signed and dated by the owner/operator certifying the control device is designed to operate at an efficiency of ≥ 95 weight %. NR 670.025(5)(e)				
L.17. If applying to use an alternate control device, a performance test plan if using test data. NR 670.025(3)				
Section M: Subch. CC – Air Emission Control Standards for Containers and Tanks NR 670.027				
M.1. Documentation for each floating roof cover installed on a tank subject to NR 664.1084(4)(a) or (b). NR 670.027(1)(a)				
M.2. Identification of each container area subject to subch. CC. NR 670.027(1)(b)				
M.3. Owner/operator certification that the requirements of subch. CC are met for container storage areas. NR 670.027(1)(b)				
M.4. Documentation for each enclosure used to control air emissions from containers per NR 664.1086(5)(a)2 and tanks per NR 664.1084(4)(e). NR 670.027(1)(c)				
M.5. Records for the most recent set of calculations and measurements verifying the enclosure meets the criteria of a permanent total enclosure as specified by Procedure T in 40 CFR 52.741, appendix B. NR 670.027(1)(c)				
M.6. Documentation for each closed-vent system and control device installed according to NR 664.1087, including design and performance information. NR 670.027(1)(e)				
M.7. An emission monitoring plan for Method 21 in 40 CFR part 60 Appendix A and control device monitoring methods. NR 670.027(1)(f)				

Revision 1 10/11