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| <b>APPLICATION REVIEW CHECKLIST</b><br><br><b>LAND PROTECTION DIVISION</b><br><b>HAZARDOUS WASTE PROGRAM</b><br><br><b>OKLAHOMA DEPARTMENT</b><br><b>OF</b><br><b>ENVIRONMENTAL QUALITY</b> | Facility Name: _____<br>Facility ID No.: _____ ODEQ Permit No.: _____ Reference No.: _____<br>Application Type: _____ Date: _____<br>(New/Modify/Renewal)                 | 40 CFR 264 Subpart L<br><br><u>SURFACE</u><br><u>IMPOUNDMENT</u> |
|   | Administrative Reviewer: _____ Start Date: _____ Completion Date: _____<br>Technical Reviewer: _____ Start Date: _____ Completion Date: _____<br>Issuance Deadline: _____ | ODEQ Form Number<br>XXX - XXX                                    |
|   |   | Shaded areas for ODEQ use<br>only                                |

| ITEM #  | FEDERAL REGULATIONS<br>40 CFR'S | STATE REGULATIONS<br>OAC 252:200's | GENERAL DESCRIPTION | INFO LOCATION | ADMIN. COMPLETE | TECHNICALLY COMPLETE | REMARKS |
|---|---------------------------------|------------------------------------|---------------------|---------------|-----------------|----------------------|---------|
|   |                                 |                                    |                     |               | YES/NO/NA       | YES/NO/NA            |         |
| <b>APPLICABILITY - 264.220</b><br><br>To all facilities that use surface impoundments (SIs) to treat, store, or dispose of hazardous waste except as 264.1 provides otherwise |                                 |                                    |                     |               |                 |                      |         |

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|--|
| Facility Name _____<br>Reference No. _____ |
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|  |                              |                                 |  |               | YES/NO/NA       | YES/NO/NA            |         |
| <b>DESIGN AND OPERATING REQUIREMENTS - 264.221</b> |                              |                                 |  |               |                 |                      |         |
| SI-1   | 264.221 (a)                  |                                 | <p>All SI must have liners except as those are covered under paragraph (c) of this section:</p> <p>The liner must be designed, constructed and installed to prevent migration of wastes out the SI during the life of the SI (incl. the closure period).</p> <p>The liner may be of materials that allow wastes to migrate into the liner but not to the environment during the active life of the facility, provided the SI is closed under 264.228(a)(1).</p> <p>For SI to be closed under 264.228(a)(2), the liner must be of materials to prevent wastes from migrating into the liner during the active life of the facility.</p> <p>The liner must be:</p> |               |                 |                      |         |
| SI-2   | 264.221(a)(1)                |                                 | Constructed of materials with chemical properties, sufficient strength and thickness to prevent failure  |               |                 |                      |         |
| SI-3   | 264.221(a)(2)                |                                 | Placed upon a sound foundation   |               |                 |                      |         |
| SI-4   | 264.221(a)(3)                |                                 | Installed to cover all surroundings that are likely to be in contact with the wastes or leachate   |               |                 |                      |         |
| SI-5   | 264.221(b)                   |                                 | Exemption from the requirements of paragraph (a) of this section based on a demonstration by the facility. Considerations to grant an exemption include:   |               |                 |                      |         |
| SI-6   | 264.221(b)(1)                |                                 | The nature and quantity of wastes  |               |                 |                      |         |
| SI-7   | 264.221(b)(2)                |                                 | The proposed alternate design and operation  |               |                 |                      |         |
| SI-8   | 264.221(b)(3)                |                                 | The hydrogeologic setting  |               |                 |                      |         |

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|        |                              |                                 |  |               | YES/NO/NA       | YES/NO/NA            |         |
| SI-9   | 264.221(b)(4)                |                                 | All other factors relating to leachate and groundwater   |               |                 |                      |         |
| SI-10  | 264.221(c)                   |                                 | New SIs after 1/29/92 must have two or more liners and a leachate collection and removal system between such liners  |               |                 |                      |         |
| SI-11  | 264.221(c)(1)                |                                 | <p>(i) The liner system must include:</p> <p>(A) A top liner made of materials to prevent migration of hazardous wastes into such liner during the active life and post closure care period</p> <p>(B) A composite bottom liner consisting of two components: a geomembrane and a 3-foot compacted soil with hydraulic conductivity of no more than <math>1 \times 10^{-7}</math> cm/sec.</p> <p>(ii) The liners must comply with paragraphs (a)(1), (2), and (3) of this section</p>  |               |                 |                      |         |
| SI-12  | 264.221(c)(2)                |                                 | <p>A leak detection system, at a minimum must be:</p> <p>(i) Constructed with a bottom slope of 1% or more</p> <p>(ii) Constructed of granular drainage materials with a minimum hydraulic conductivity of <math>1 \times 10^{-1}</math> cm/sec, a minimum thickness of 12 inches; or a geonet drainage materials with a minimum transmissivity of <math>3 \times 10^{-4}</math> m<sup>2</sup>/sec</p> <p>(iii) Constructed of materials with chemical resistance and strength</p> <p>(iv) Designed and operated to minimize clogging</p> <p>Constructed with sumps and liquid removal systems that are capable of measuring liquids present and removed</p> |               |                 |                      |         |

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|        |                              |                                 |  |               | YES/NO/NA       | YES/NO/NA            |         |
| SI-13  | 264.221(c)(3)                |                                 | The facility shall collect and remove liquids in the sumps   |               |                 |                      |         |
| SI-14  | 264.221(c)(4)                |                                 | The leak detection system must not be adversely affected by groundwater  |               |                 |                      |         |
| SI-15  | 264.221(d)                   |                                 | Approval of alternate design or operating practices to those specified in paragraph (c) of this section, if they:  |               |                 |                      |         |
| SI-16  | 264.221(d)(1)                |                                 | Will prevent the migration of any hazardous constituent into the environment as effectively as those in paragraph (c) of this section; and   |               |                 |                      |         |
| SI-17  | 264.221(d)(2)                |                                 | Will detect leaks through the top liner at least as effectively  |               |                 |                      |         |
| SI-18  | 264.221(e)                   |                                 | Waiving of the double liner requirement as specified in paragraph (c) of this section for any monofill, if:  |               |                 |                      |         |
| SI-19  | 264.221(e)(1)                |                                 | The monofill is from foundry furnace emission controls or metal casting molding sand; and  |               |                 |                      |         |
| SI-20  | 264.221(e)(2)                |                                 | (i)<br>(A) The monofill has at least one non-leaking liner (see the detailed definition of liner);<br>(B) The monofill is located more than one-quarter mile from an underground source of drinking water (144.3); and<br>(C) The monofill is in compliance with groundwater monitoring requirements; or<br>(ii) Demonstration to assure that no migration of any hazardous constituent into the environment in the future |               |                 |                      |         |
| SI-21  | 264.221(f)                   |                                 | A replacement SI unit is exempt from paragraph (c) of this section, if:  |               |                 |                      |         |

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|  |                              |                                 |   |               | YES/NO/NA       | YES/NO/NA            |         |
| SI-22                                      | 264.221(f)(1)                |                                 | The existing unit was constructed in compliance with Section 3004 (o)(1)(A)(i) and (o)(5) of RCRA; and  |               |                 |                      |         |
| SI-23                                      | 264.221(f)(2)                |                                 | The liner is functioning as designed  |               |                 |                      |         |
| SI-24                                      | 264.221(g)                   |                                 | A SI must be designed, constructed, maintained, and operated to prevent overtopping   |               |                 |                      |         |
| SI-25                                      | 264.221(h)                   |                                 | Dikes must have structural integrity to prevent failure   |               |                 |                      |         |
| SI-26                                      | 264.221(i)                   |                                 | The Agency will specify in the permit all design and operating practices that are necessary to ensure that the requirements of this section are satisfied   |               |                 |                      |         |
| <b>ACTION LEAKAGE RATE (ALR) - 264.222</b> |                              |                                 |   |               |                 |                      |         |
| SI-27                                      | 264.222(a)                   |                                 | The Agency shall approve an ALR for SI units subject to 264.221(c) or (d). The ALR is the maximum design flow rate that the leak detection system can remove without the fluid head on the bottom liner exceeding 1 foot. The ALR must include an adequate safety margin  |               |                 |                      |         |
| SI-28                                      | 264.222(b)                   |                                 | To determine if the ALR has been exceeded, the facility must convert the weekly or monthly flow rate under 264.226(d) to an average daily flow rate (gal/acre/day) for each sump. The average daily flow rate must be calculated weekly during the active life and closure period, and monthly during the post closure care period as under 264.228(b) and 264.226(d) |               |                 |                      |         |
| <b>RESPONSE ACTION - 264.223</b>           |                              |                                 |   |               |                 |                      |         |

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|        |                              |                                 |   |               | YES/NO/NA       | YES/NO/NA            |         |
| SI-29  | 264.223(a)                   |                                 | The facility must have an approved response action plan before receiving wastes. The response action plan at a minimum must be as described in paragraph (b) of this section:   |               |                 |                      |         |
| SI-30  | 264.223(b)                   |                                 | If the flow rate into the leak detection system exceeds the ALR for any sump, the facility must:  |               |                 |                      |         |
| SI-31  | 264.223(b)(1)                |                                 | Notify the Agency in writing within 7 days  |               |                 |                      |         |
| SI-32  | 264.223(b)(2)                |                                 | Submit a written assessment to the Agency within 14 days as to the amount of liquids, sources, location, size, cause, and short-term actions taken and planned  |               |                 |                      |         |
| SI-33  | 264.223(b)(3)                |                                 | Determine the location, size, and cause of any leak   |               |                 |                      |         |
| SI-34  | 264.223(b)(4)                |                                 | Determine whether waste receipt should be ceased or curtailed, whether any waste should be removed, and whether or not the unit should be closed  |               |                 |                      |         |
| SI-35  | 264.223(b)(5)                |                                 | Determine any short-term and long-term actions  |               |                 |                      |         |
| SI-36  | 264.223(b)(6)                |                                 | Within 30 days after the notification, submit to the Agency the results of analyses in paragraphs (b)(3), (4), and (5) of this section, the results of actions taken, and actions planned. Monthly thereafter, as long as problems still occur, the facility must submit a report summarizing the results of any remedial actions taken and actions planned |               |                 |                      |         |
| SI-37  | 264.223(c)                   |                                 | To make the leak and/or remediation determinations in paragraphs (b)(3), (4), and (5) of this section, the facility must:   |               |                 |                      |         |

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|  |                              |                                 |   |               | YES/NO/NA       | YES/NO/NA            |         |
| SI-38                                      | 264.223(c)(1)                |                                 | (i) Assess the source of liquids and amount of liquids by source<br><br>(ii) Conduct a fingerprint of the liquids in the leak detection system to identify the source, location of any leaks, and the hazard and mobility of the liquid<br><br>(iii) Assess the potential impact to the environment |               |                 |                      |         |
| SI-39                                      | 264.223(c)(2)                |                                 | Document why such assessments are not needed  |               |                 |                      |         |
| <b>264.224 - 264.225 [RESERVED]</b>        |                              |                                 |   |               |                 |                      |         |
| <b>MONITORING AND INSPECTION - 264.226</b> |                              |                                 |   |               |                 |                      |         |
| SI-40                                      | 264.226(a)                   |                                 | During construction and installation, liners and cover systems must be inspected for uniformity, damage, and imperfections. Immediately after construction or installation:   |               |                 |                      |         |
| SI-41                                      | 264.226(a)(1)                |                                 | Synthetic liners and covers must be inspected   |               |                 |                      |         |
| SI-42                                      | 264.226(a)(2)                |                                 | Soil-based and admixed liners and covers must be inspected  |               |                 |                      |         |
| SI-43                                      | 264.226(b)                   |                                 | While in operation, the facility must inspect weekly and after storms for:  |               |                 |                      |         |
| SI-44                                      | 264.226(b)(1)                |                                 | Deterioration, malfunctions, or improper operation of overtopping control systems   |               |                 |                      |         |
| SI-45                                      | 264.226(b)(2)                |                                 | Sudden drops in the level of the impoundment's contents   |               |                 |                      |         |
| SI-46                                      | 264.226(b)(3)                |                                 | Severe erosion or other signs of deterioration in dikes or other containment devices  |               |                 |                      |         |

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|   |                              |                                 |   |               | YES/NO/NA       | YES/NO/NA            |         |
| SI-47   | 264.226(c)                   |                                 | Prior to a permit issuance, and after a period of inactive service (at least 6 months), the facility must obtain a qualified engineer's certification on the structural integrity of the dike. The certification must establish that the dike:  |               |                 |                      |         |
| SI-48   | 264.226(c)(1)                |                                 | Will withstand the stress exerted by the wastes   |               |                 |                      |         |
| SI-49   | 264.226(c)(2)                |                                 | Will not fail due to scouring or piping   |               |                 |                      |         |
| SI-50   | 264.226(d)(1)                |                                 | If the facility must meet the requirements under 264.221(c) or (d), the facility must record the liquids removed from each sump weekly during the active and closure periods  |               |                 |                      |         |
| SI-51   | 264.226(d)(2)                |                                 | <p>After the installation of the final cover, the facility must record the liquids removed from each sump monthly.</p> <p>If the liquid level is below the pump operating level for two consecutive months, the amount of liquids in the sump must be recorded quarterly.</p> <p>If the liquid level is below the pump operating level for two consecutive quarters, the amount of liquids in the sump must be recorded semi-annually.</p> <p>If the pump operating level is exceeded on quarterly or semi-annual schedule, the facility must return to monthly schedule.</p> |               |                 |                      |         |
| SI-52   | 264.226(d)(3)                |                                 | "Pump operating level" is a liquid level based on pump activation level, sump dimensions, and level that avoids backup into the drainage layer and minimizes head   |               |                 |                      |         |
| <b>EMERGENCY REPAIRS; CONTINGENCY PLANS - 264.227</b> |                              |                                 |   |               |                 |                      |         |
| SI-53   | 264.227(a)                   |                                 | AN SI must be removed from service in accordance with paragraph (b) of this section when:   |               |                 |                      |         |

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|        |                              |                                 |   |               | YES/NO/NA       | YES/NO/NA            |         |
| SI-54  | 264.227(a)(1)                |                                 | The liquid level in the SI drops and the reason for dropping is unknown   |               |                 |                      |         |
| SI-55  | 264.227(a)(2)                |                                 | The dike leaks  |               |                 |                      |         |
| SI-56  | 264.227(b)                   |                                 | When an SI is removed due to paragraph (a) of this section, the facility must:  |               |                 |                      |         |
| SI-57  | 264.227(b)(1)                |                                 | Immediately stop all the wastes going into the SI   |               |                 |                      |         |
| SI-58  | 264.227(b)(2)                |                                 | Immediately contain any leakage   |               |                 |                      |         |
| SI-59  | 264.227(b)(3)                |                                 | Immediately stop the leak   |               |                 |                      |         |
| SI-60  | 264.227(b)(4)                |                                 | Take steps to stop or prevent catastrophic failure  |               |                 |                      |         |
| SI-61  | 264.227(b)(5)                |                                 | If a leak cannot be stopped, empty the SI   |               |                 |                      |         |
| SI-62  | 264.227(b)(6)                |                                 | Notify the Agency in writing within seven days  |               |                 |                      |         |
| SI-63  | 264.227(c)                   |                                 | As part of the contingency plan, the facility must specify a procedure for complying with paragraph (b) of this section   |               |                 |                      |         |
| SI-64  | 264.227(d)                   |                                 | No SI that has been removed from service (under this section) may be restored to service unless the SI is repaired and the following steps are taken:   |               |                 |                      |         |
| SI-65  | 264.227(d)(1)                |                                 | If due to dike failure, the dike's structural integrity must be recertified in acc. with 264.226(c)   |               |                 |                      |         |
| SI-66  | 264.227(d)(2)                |                                 | If due to a sudden drop in liquid level, then:<br><br>(i) A liner must be installed in compliance with 264.221(a); and<br><br>(ii) The repaired liner system must be certified by a qualified engineer to meet the specifications in the permit |               |                 |                      |         |

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|  |                              |                                 |  |               | YES/NO/NA       | YES/NO/NA            |         |
| SI-67  | 264.227(e)                   |                                 | A SI that has been removed (under this section) and that is not being repaired must be closed in acc. with 264.228   |               |                 |                      |         |
| <b>CLOSURE AND POST CLOSURE CARE - 264.228</b> |                              |                                 |  |               |                 |                      |         |
| SI-68  | 264.228(a)                   |                                 | At closure, the facility must:   |               |                 |                      |         |
| SI-69  | 264.228(a)(1)                |                                 | Remove or decontaminate all wastes, containment system, contaminated subsoils, and structures unless 261.3(d) applies.<br><br>*** The ODEQ may approve risk-based closure standards as an option for closure of a unit if requested by the facility.   |               |                 |                      |         |
| SI-70  | 264.228(a)(2)                |                                 | (i) Eliminate free liquids<br>(ii) Stabilize remaining wastes<br>(iii) Cover the SI with a final cover designed and constructed to:<br><br>(A) Minimize the migrations of liquids<br>(B) Minimize maintenance<br>(C) Promote drainage and minimize erosion<br>(D) Accommodate settling and subsidence<br>(E) Have a permeability equal or lesser than the permeability of the bottom liner |               |                 |                      |         |
| SI-71  | 264.228(b)                   |                                 | If close in place, the facility must comply with post-closure req. in 264.117 through 120, including post closure care requirements. The facility must:  |               |                 |                      |         |
| SI-72  | 264.228(b)(1)                |                                 | Maintain the final cover   |               |                 |                      |         |

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|   |                              |                                 |  |               | YES/NO/NA       | YES/NO/NA            |         |
| SI-73   | 264.228(b)(2)                |                                 | Maintain and monitor the leak detection system in acc. with 264.221(c)(2)(iv) and (3) and 264.226(d), and comply with all leak detection system requirements   |               |                 |                      |         |
| SI-74   | 264.228(b)(3)                |                                 | Maintain and monitor the groundwater monitoring system and comply with all req. of Subpart F   |               |                 |                      |         |
| SI-75   | 264.228(b)(4)                |                                 | Prevent run on and run off   |               |                 |                      |         |
| SI-76   | 264.228(c)(1)                |                                 | If a SI is closed in acc. with paragraph (a)(1) of this section, and the SI does not comply with liner req. of 264.221(a) and is not exempt from them in acc. with 264.221(b), then:<br><br>(i) The closure plan under 264.112 must include a plan in compliance with paragraph (a)(1) of this section and a contingency plan in compliance with paragraph (a)(2) of this section; and<br><br>(ii) The facility must prepare a contingent post-closure plan under 264.118 for complying with paragraph (b) of this section |               |                 |                      |         |
| SI-77   | 264.228(c)(2)                |                                 | Cost estimates under 264.142 and 144 for closure and post closure care including the contingent closure and post closure plans, but excluding the closure cost under paragraph (a)(1) of this section  |               |                 |                      |         |
| <b>SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE (IR) WASTES - 264.229</b>                               |                              |                                 |  |               |                 |                      |         |
| IR wastes must not be placed in an SI, unless the waste and SI satisfy all requirements of 40CFR268, and: |                              |                                 |  |               |                 |                      |         |
| SI-78   | 264.229(a)                   |                                 | The waste is treated before or immediately after placement in the SI so that:  |               |                 |                      |         |
| SI-79   | 264.229(a)(1)                |                                 | The resulting waste no longer meets the definition of IR under 261.21 or 23; and   |               |                 |                      |         |

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|  |                              |                                 |   |               | YES/NO/NA       | YES/NO/NA            |         |
| SI-80  | 264.229(a)(2)                |                                 | Section 264.17(b) is complied with; or  |               |                 |                      |         |
| SI-81  | 264.229(b)                   |                                 | The waste is managed to be protected from any material or conditions which may cause it to ignite or react; or  |               |                 |                      |         |
| SI-82  | 264.229(c)                   |                                 | The SI is used solely for emergencies.  |               |                 |                      |         |
| <b>SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES - 264.230</b>                              |                              |                                 |   |               |                 |                      |         |
| Incompatible wastes must not be placed in the same SI , unless 264.17(b) is complied with. |                              |                                 |   |               |                 |                      |         |
| <b>SPECIAL REQUIREMENTS FOR HAZARDOUS WASTES F020 THROUGH F027 - 264.231</b>               |                              |                                 |   |               |                 |                      |         |
| SI-83  | 264.231(a)                   |                                 | Hazardous wastes F027 through F027 must not be placed in an SI unless a management plan for these wastes is approved by the Agency. Factors to be considered are: |               |                 |                      |         |
| SI-84  | 264.231(a)(1)                |                                 | The volume, physical, and chemical characteristics of the wastes, including the potential to migrate to the environment;  |               |                 |                      |         |
| SI-85  | 264.231(a)(2)                |                                 | The attenuative properties of the soils or other materials;   |               |                 |                      |         |
| SI-86  | 264.231(a)(3)                |                                 | The mobilizing properties of other materials co-disposed with these wastes; and   |               |                 |                      |         |
| SI-87  | 264.231(a)(4)                |                                 | The effectiveness of additional treatment, design, or monitoring techniques   |               |                 |                      |         |
| SI-88  | 264.231(b)                   |                                 | The Agency may impose additional requirements in order to reduce the possibility of migration of these wastes to the environment                                  |               |                 |                      |         |

Facility Name \_\_\_\_\_  
Reference No. \_\_\_\_\_

A. Reviewer's Initials \_\_\_\_\_ Tracking Date \_\_\_\_\_

T. Reviewer's Initials \_\_\_\_\_ Tracking Date \_\_\_\_\_