



**DEPARTMENT OF TOXIC SUBSTANCES CONTROL**  
**CLOSURE REQUIREMENTS**  
**FOR**  
**GENERATORS & TIERED PERMITTING FACILITIES**  
 FEBRUARY 2000

	<b>HAZ. WASTE GENERATOR</b>	<b>CONDITIONAL EXEMPTION</b>	<b>CONDITIONAL AUTHORIZATION</b>	<b>PERMIT BY RULE (TTU/FTU)</b>
<b>Type of Facility</b>	Onsite	Onsite	Onsite	Onsite - TTU & FTU
Closure Requirements	<p><b>Title 22 CCR 66262.34(a)(1)</b>            Specified requirements apply to 90 day generators with certain tanks, containers, drip pads, and containment buildings.  <u>Title 22 CCR 66265.197</u>            90 day accumulation tanks and containers without secondary containment are subject to full closure requirements.  <u>Title 22 CCR 66265.445(c)(1)(A)</u>            Drip pads (w/o liners) from wood treatment facilities are subject to full closure requirements.  <u>Title 22 CCR 66265.1102</u>            Containment building are subject to full closure requirements.</p> <p>-----</p> <p><b>Title 22 CCR 66265.111</b>            Requires generator to close facility in a manner that minimizes further maintenance and is protective of public health and environment.  <b>Title 22 CCR 66265.114</b>            Requires generator to properly dispose of all contamination generated during closure.</p>	<p><b>Generator Requirements Plus:</b></p> <p><b>H&amp;SC 25201.5(d)(8)(A)</b>            Requires removal or decontamination of all haz. waste/ constituents resulting from unit closure.</p> <p>-----</p> <p><b>H&amp;SC 25201.5(d)(9)</b>            Requires compliance with all generator requirements including: Title 22 66262.34 (see Hazardous Waste Generator requirements).</p> <p><b>H&amp;SC 25201.5(e)(1)</b>  <u>Exempts</u> tanks and containers ancillary equipment from 66265.193 requirements, if specified conditions are met, unless otherwise required by federal law.</p> <p><b>Title 23 CCR 2672</b>            Applies to the cleanup of contamination resulting from underground tank closures.</p> <p><b>Title 22 CCR 67383.1 to 67383.5</b>            Requirements for the management of aboveground and underground tanks that held haz. waste or haz. materials and are themselves classified as haz. wastes.</p>	<p><b>Generator Requirements Plus:</b></p> <p><b>H&amp;SC 25200.3(g)(1)</b>            Requires removal or decontamination of all haz. waste/ constituents resulting from unit closure.</p> <p>-----</p> <p><b>H&amp;SC 25200.3(c)(4)(A)</b>  <u>Exempts</u> tanks and containers ancillary equipment from 66265.193 requirements, if specified conditions are met, unless otherwise required by federal law.</p> <p><b>Title 23 CCR 2672</b>            Applies to the cleanup of contamination resulting from underground tank closures.</p> <p><b>Title 22 CCR 67383.1 to 67383.5</b>            Requirements for the management of aboveground and underground tanks that held haz. waste or haz. materials and are themselves classified as haz. wastes.</p>	<p><b>Title 22 CCR 67450.3(b)(13)(A)-TTU</b>  <b>Title 22 CCR 67450.3(c)(11)(A)-FTU</b>            Maintain compliance with the following closure requirements: Section <b>66264.178, 66265.111(a)</b> and <b>66265.111(b), 66265.114.</b></p> <p>-----</p> <p><b>Title 22 CCR 67450.3(a)(11)(F)-TTU</b>  <b>Title 22 CCR 67450.3(c)(11)(B)-FTU</b>            Applicable tank systems are subject to additional closure requirements pursuant to Title 22, CCR, Article 10, Chapter 15.</p> <p>-----</p> <p><b>Title 22 CCR 66265.404</b>            Applies to owners and operators (O/O) of facilities which treat hazardous wastes by chemical, physical, or biological methods in other than tanks, surface impoundments, and land treatment facilities. Requires that all hazardous waste and hazardous waste residues be removed from treatment processes or equipment, discharge control equipment, and discharge confinement structures.</p>

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Closure Plan	<p>No written closure plan is required unless one or more of the following specified 90 day generator requirements applies:</p> <p><b>Title 22 CCR 66265.197(a)</b> 90 day accumulation tanks and containers without secondary containment are subject to closure plan requirements specified in Article 7 of Chapter 15.</p> <p><b>Title 22 CCR 66265.445(c)(1)(A)</b> Drip pads (w/o liners) from wood treatment facilities are subject to closure plan requirements.</p> <p><b>Title 22 CCR 66265.1102(a)</b> Containment building are subject to closure plan requirements.</p>	<p>No written closure plan required unless a specified 90 day generator requirement applies.</p>	<p>No written closure plan required unless a specified 90 day generator requirement applies.</p>	<p><b>Title 22 CCR 67450.3(a)(13)(B)-TTU</b> <b>Title 22 CCR 67450.3(c)(11)(B)-FTU</b> Closure plan requirements. The plan must be kept onsite and does not have to be approved by CUPA or DTSC.</p> <p>-----</p> <p><b>Title 22 CCR 67450.3(a)(13)(C)-TTU</b> <b>Title 22 CCR 67450.3(c)(11)(C)-FTU</b> <u>TTU</u> - O/O shall amend the closure plan at any time during the active life of the TTU(s) when changes in operating plans or TTU design affect the closure plan, or whenever there is a change in the expected year of closure. <u>FTU</u> - Amendments to the closure plan must comply with Section 66265.112(c).</p>
Closure Time Requirements & Notification	<p>Notification of closure may be required by some local ordinances.</p>	<p><b>Same as generator requirements plus:</b></p> <p><b>H&amp;SC 25201.5(d)(8)(A)</b> Upon terminating operations, the generator shall initiate closure activities by removing all waste residues.</p> <p>-----</p> <p><b>H&amp;SC 25201.5(d)(8)(B)</b> Requires generator to provide written notification to DTSC and the CUPA or the authorized unified program agency upon the completion of all closure activities.</p>	<p><b>Same as generator requirements plus:</b></p> <p><b>H&amp;SC 25200.3(g)(1)</b> Upon terminating operations, the generator shall initiate closure activities by removing all waste residues.</p> <p>-----</p> <p><b>H&amp;SC 25200.3(g)(2)</b> Requires generator to provide written notification to DTSC and the CUPA or the authorized unified program agency upon the completion of all closure activities.</p>	<p><b>Title 22 CCR 67450.3(a)(13)(D)-TTU</b> <b>Title 22 CCR 67450.3(c)(11)(D)-FTU</b> O/O shall treat, remove or dispose of all hazardous waste within 90 days after final volume is treated.</p> <p>-----</p> <p><b>Title 22 CCR 67450.3(a)(13)(E)-TTU</b> <b>Title 22 CCR 67450.3(c)(11)(E)-FTU</b> Closure shall be completed within 180 days after treating final volume of hazardous waste.</p> <p>-----</p> <p><b>Title 22 CCR 67450.3(a)(13)(F)-TTU</b> <b>Title 22 CCR 67450.3(c)(11)(F)-FTU</b> O/O shall notify CUPA (and DTSC for TTUs) or authorized UP agency 15 days prior to completion of closure.</p>

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Certification	Certification of closure may be required by some local ordinances.	<b>H&amp;SC 25201.5(d)(8)(B)</b> Requires generator to submit certification when all treatment activities have ceased.	<b>H&amp;SC 25200.3(g)(2)</b> Requires generator to submit notification to DTSC and CUPA (or authorized officer or agency if no CUPA) when all treatment activities have ceased.	<b>Title 22 CCR 67450.3(a)(13)(G)-TTU</b> <b>Title 22 CCR 67450.3(c)(11)(G)-FTU</b> Requires submittal of a certification signed by the O/O and a CA registered professional engineer stating closure completed in accordance with the closure plan.
Financial Responsibility	Not required unless one or more of the following specified 90 day generator requirements apply to certain tanks/containers, drip pads, and containment buildings: <b>Title 22 CCR 66262.34(a)(1)</b> Financial responsibility requirements apply to generators for applicable tanks, containers and drip pads, and containment buildings. <u>Title 22 CCR 66265.197(a)</u> 90 day accumulation tanks without secondary containment are subject to financial responsibility requirements. <u>Title 22 CCR 66265.445(c)(1)(A)</u> Drip pads (w/o liners) from wood treatment facilities are subject to financial responsibility requirements. <u>Title 22 CCR 66265.1102(a)</u> Containment buildings are subject to financial responsibility requirements.	Not required unless a specified generator requirement applies.	<b>H&amp;SC 25245.4(b)(1)(B)</b> Generator must obtain financial assurance for closure on and after 10/1/96. <b>Title 22 CCR 67450.13(a)(5)</b> Generator must obtain financial assurance for closure on or after 10/1/96. <b>Title 22 CCR 67450.13(a)(1)</b> Generator must prepare written cost estimate for the closure of each unit. Section <b>67450.13(a)(2)</b> requires closure cost estimate to be adjusted for inflation by March 1 of each year. ----- <b>Title 22 CCR 67450.13(d)</b> Facilities with closure cost estimates below \$10,000 are allowed to self-certify in accordance with section 66270.11 that they have sufficient resources to meet closure cost requirements.	<b>H&amp;SC 25245.4(a)(1)(B)-TTU&amp;FTU</b> O/O must obtain financial assurance for closure on and after 10/1/96. <b>Title 22 CCR 67450.13(a)(5)</b> O/O must obtain financial assurance for closure on or after 10/1/96. <b>Title 22 CCR 67450.13(a)(1)</b> O/O must prepare written cost estimate for the closure of each unit. Section <b>67450.13(a)(2)</b> requires closure cost estimate to be adjusted for inflation by March 1 of each year. ----- <b>H&amp;SC 25245.4(a)(1)(B)-TTU&amp;FTU</b> O/O must obtain financial assurance for closure unless exempt. <b>Title 22 CCR 67450.13(e)-TTU&amp;FTU</b> O/O is <u>exempt</u> from financial assurance requirements if facility operated no more than 30 days in any calendar year. <u>FTU</u> exemption self-certification form must be submitted to CUPA or DTSC in non-CUPA jurisdiction. <u>TTU</u> exemption self-certification must be submitted to DTSC.
Wastestreams	RCRA and Non-RCRA waste	Primarily non-RCRA waste and certain RCRA wastes pursuant to <b>H&amp;SC 25201.5(a) and (c)</b>	Primarily non-RCRA wastes and certain RCRA wastes pursuant to <b>H&amp;SC 25200.3(a)</b>	Both non-RCRA wastes and certain RCRA wastes pursuant to <b>67450.11-TTU&amp;FTU</b>

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Relative Risk to Public Health & Environment	Low	Low	Low	Medium
Corrective Action & Phase I	<p><b>H&amp;SC 25189.2(c)</b> Prohibits the on-site disposal of hazardous waste at an unauthorized point by a generator.</p> <p><b>H&amp;SC 25187</b> Allows DTSC to issue an order specifying a schedule for compliance or correction for any release of haz. waste or constituents into the environment.</p> <p>----- Phase I not required.</p>	<p><b>H&amp;SC 25189.2(c)</b> Prohibits the on-site disposal of hazardous waste at an unauthorized point by a generator.</p> <p><b>H&amp;SC 25201.5(d)(8)(A)</b> Requires generator to remove or decontaminate all waste residues associated with the closure of a unit including soils, and structures or equipment contaminated with hazardous waste from the unit.</p> <p><b>H&amp;SC 25187</b> Allows DTSC to issue an order specifying a schedule for compliance or correction for any release of haz. waste or constituents into the environment.</p> <p>----- Phase I not required.</p>	<p><b>H&amp;SC 25189.2(c)</b> Prohibits the on-site disposal of hazardous waste at an unauthorized point by a generator.</p> <p><b>H&amp;SC 25200.3(c)(3)</b> Generator shall comply with Phase I environmental assessment procedures per H&amp;SC 25200.14. Requires removal or decontamination of all haz. waste/constituents resulting from unit closure. If contamination is found, generator is responsible for expeditious cleanup.</p> <p><b>H&amp;SC 25187</b> Allows DTSC to issue an order specifying a schedule for compliance or correction for any release of haz. waste or constituents into the environment.</p> <p><b>H&amp;SC 25404.1(a)(3)(A)</b> Allows only DTSC to implement and enforce the requirements of Sections 25200.3(c)(3) and 25200.14.</p> <p>----- <b>H&amp;SC 25200.14(b)(1)</b> Requires a Phase I environmental assessment for all CA facilities.</p>	<p><b>H&amp;SC 25200.10(b)-TTU&amp;FTU</b> Requires corrective action for all haz. waste/constituent releases.</p> <p><b>Title 22 CCR 67450.7-TTU&amp;FTU</b> Requires O/O to establish a corrective action program consisting of a Phase I environmental assessment and remediation if a release haz. waste or constituents has occurred.</p> <p><b>H&amp;SC 25187-TTU&amp;FTU</b> Allows DTSC to issue an order specifying a schedule for compliance or correction for any release of haz. waste or constituents into the environ.</p> <p><b>H&amp;SC 25404.1(a)(3)(A)</b> Allows only DTSC to implement and enforce the requirements of Sections 25200.10 and 25200.14.</p> <p>----- <b>H&amp;SC 25200.14(b)(1) -TTU&amp;FTU</b> Requires a Phase I environmental assessment for all PBR facilities.</p>

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Post Closure	<p>Not required if clean closure.</p> <p><b>H&amp;SC 25189.2(c)</b> prohibits the on-site disposal of hazardous waste at an unauthorized point by a generator.</p> <p>-----</p> <p>Post closure is not required unless one or more of the following specified 90 day generator requirements apply to certain tanks/containers, drip pads, and containment buildings:  <b>Title 22 CCR 66262.34(a)(1)</b>            Post closure requirements apply to generators for applicable tanks and drip pads, and containment buildings.  <u>Title 22 CCR 66265.197(b)</u>            Post closure is required for tanks without secondary containment if all contaminated soils cannot be removed or decontaminated.  <u>Title 22 CCR 66265.445(c)(1)(B)</u>            Post closure plan is required for drip pads (w/o liners) from wood treatment facilities which do not comply with liner requirements pursuant to 66265.443(b)(1).  <u>Title 22 CCR 66265.1102(b)</u>            Post closure is required for containment buildings if all contaminated soils cannot be removed or decontaminated.</p>	<p>Not required if clean closure.</p> <p>If contamination remains after closure, then the facility is also subject to all applicable generator requirements, including requirements for landfills, pursuant to <b>H&amp;SC 25201.5(d)(9)</b>.</p>	<p>Not required if clean closure.</p> <p><b>H&amp;SC 25245.4(b)(3)</b>            Generator shall not be required to provide financial assurances for post closure maintenance pursuant to H&amp;SC 25245(a)(2).</p> <p>If contamination remains after closure, then the facility is also subject to generator requirements, including requirements for landfills, pursuant to <b>H&amp;SC 25200.3(c)(1)</b>.</p>	<p>Not required if clean closure.</p> <p><b>H&amp;SC 25245.4(a)(3)-TTU&amp;FTU</b>            Generator shall not be required to provide financial assurances for post closure maintenance pursuant to H&amp;SC 25245(a)(2).</p> <p>If contamination remains at either <b>TTU&amp;FTU</b> after closure, the owner/operator is subject to <b>H&amp;SC 25200.10(b)</b> which requires corrective action for all haz. waste/constituent releases.</p> <p><b>Title 22 CCR 67450.3(a)(11)(F)-TTU</b>  <b>Title 22 CCR 67450.3(c)(9)(F)-FTU</b>            Post closure plan is required for tank systems.</p>