

A Brief Overview of Chapter 39 –
Plant Processing and Extraction
Facilities



The requirements listed in this document are intended to assist the applicant with some of the requirements applicable to a Building Division permit submittal and are not to be considered an all-inclusive listing of Building or Fire Department requirements for plan approval or permit issuance.

PLACE
STAMP
HERE

Sacramento Fire Prevention Mission

Protect our community through effective and innovative public safety services. The Department applies a proactive approach to fire prevention and encourages all to practice safety everyday.

Together we can improve the lives of residents and enhance the stability of businesses by preventing fires and reducing the impact if a fire should occur.



“A collaborative approach towards the management of cannabis, which includes multiple agencies working together to address regulation, enforcement and education.”

- **Office of Cannabis Management**

Chapter 39 – Plant Processing and extraction

One of the main questions that we get is when is a technical report required.

If the system is not listed for the extraction of oils from plant material or for that specific use, then it needs to be reviewed by a Registered Design Professional. (3904.2 CFC)

A Fire Protection Engineer or Mechanical Engineer is Required

What is to be included in a Technical Report?

- 1) Manufacture Information.
- 2) Preparer of record on technical report.
- 3) Date of review and report revision history.
- 4) Signature page shall include all of the following: Author of the report, Date of report, Date of signature of Registered Design Professions of record performing the design or peer review.
- 5) Model number of the item evaluated. (include serial number)
- 6) Methodology of the design of peer review process used to determine minimum safety requirements.

- 7) Equipment description. A list of every component and sub-assembly of the system equipment.
- 8) A general flow schematic or general process. Post-processing or winterization may be included in this diagram.
- 9) Analysis of the vessel(s) if pressurized beyond standard atmospheric pressure.
- 10) Structural analysis for the frame system supporting the equipment.
- 11) Process safety analysis of the extraction system.
- 12) Comprehensive process hazard analysis considering failure modes and points of failure throughout the process.
- 13) Review if the assembly instructions, operational and maintenance manuals provided by the manufacture.
- 14) List of references used in the analysis.

Food For Thought

Extraction using flammable gases or cryogenic gases can not be located in a building that also has A, E, I or R occupancy (3903.2 CFC)

Use of flammable liquids where the liquid is boiled, distilled, or evaporated has to be located in a hazardous exhaust fume hood rated for exhausting flammable vapors. (3903.5 CFC)

Extraction facilities utilizing flammable gases as solvents will have to have a continuous gas detection system. (3903.3 CFC)

Flammable gas detection systems have to be listed and approved for the fuel and gas to be used with the extraction process. It also has to be designed to activate when the level of flammable gas exceeded 25% of the lower flammable limit. (3905.1.1 CFC)

Helpful links

- <https://codes.iccsafe.org/public/document/details/toc/1047>
- <http://www.cityofsacramento.org/marijuana>
- <http://www.cityofsacramento.org/Community-Development/Building>
- http://www.bcc.ca.gov/law_regs/cdph_prop_text_emerg_reg.pdf

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