

RF

Exposure Assessment

Guy's Construction
123 Main Street, Anytown, CA 90210

Ontology-Backed Safety Document

Effective Date: June 08, 2026

SAMPLE DOCUMENT - NOT FOR COMPLIANCE USE

JURISDICTION AND REGULATORY FRAMEWORK

STATE-SPECIFIC: California has the following requirements:

- Respiratory Protection Program
- requirement for prompt and annual medical surveillance
- medical removal from lead exposure work
- engage in any practice that diverts their attention while actually engaged in operating the derrick
- 20 µg/dl
- between 9 a.m. and 4 p.m., Monday through Friday, excluding Federal holidays
- the manufacturer's recommended single rope
- last two BLLs < 20 µg/dl effective January 1, 2026
- that area of the State consisting of Townships 5 South through Townships 5 North, Ranges 58 West through 70 West, and Township 6 South, Ranges 65 West through 70 West
- monthly blood lead level testing
- section for radio frequency hazard warning
- usually means more than 1/2 the time
- more than 1/2 the time
- Yes or No for each wheezing frequency question
- 50 psi
- within a reasonable time after the conclusion of the hearing
- usually cough as much as 4 to 6 times a day 4 or more days out of the week
- in approved and safe condition or removed from service
- free of leaks, cracks, openings, and highly reflective surfaces
- posted in the immediate vicinity of the affected operations while work is in progress and specify conditions (safe for workers, safe for hot work, or not safe)
- any hazardous (classified) location
- residential buildings
- bottom shield installed beneath all Type FCC cable, connectors, and insulating ends
- damp locations
- damp locations
- third physician to conduct examinations, consultations, laboratory tests and discussions with prior physicians as necessary to resolve disagreement
- fiberboard box (4G) or fiber drum (1G) with plastic inner packaging not exceeding 5 kg (11 lbs) and maximum net mass not more than 25 kg (55 lbs)
- the overall status of implementation of the provisions of this Part relating to the identification, inventory, and removal of underwater obstructions
- a diagrammatic sketch of the mechanical installation along with a detailed explanation of the flow, procedures and frequency of well tests, calibration/proving of metering devices and allocation formulas
- a list of interested parties (those with interests in the leases and/or units from which production is to be commingled for which the applicant has no existing commingling authority)
- Maximum Permissible Exposure (MPE) for controlled environments (occupational) and uncontrolled

environments (general public)

- Maximum Permissible Exposure (MPE) for controlled environments (occupational) and uncontrolled environments (general public) per 47 CFR 1.1310 and OET Bulletin 65

FCC 47 CFR 1.1310 / OET Bulletin 65

- Maximum Permissible Exposure (MPE) for controlled environments (occupational) and uncontrolled environments (general public)
- RF radiation exceeding MPE limits (0.6 mW/cm² at 900MHz, 1.0 mW/cm² at 1900MHz and 5GHz)
- maintaining distance from active antennas or reducing transmitter power before approach per FCC MPE limits

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FEDERAL OSHA REQUIREMENTS

- that portion of the spectrum commonly defined as the radio frequency region, including the microwave frequency region

29 CFR 1910.97(a)(1)(i)

- the words "Warning-Radio-Frequency Radiation Hazard" in the upper triangle

29 CFR 1910.97(a)(3)(i)

- a red isosceles triangle above an inverted black isosceles triangle, separated and outlined by an aluminum color border

29 CFR 1910.97(a)(3)(i)

- residential buildings
- FCC MPE limits vary by frequency: 900MHz = 0.6 mW/cm² occupational; 1900MHz = 1.0 mW/cm²; 5GHz = 1.0 mW/cm²; workers must maintain distance from active antennas or reduce power before approach; RF personal monitors (Narda, EME Guard) alarm at 50% of MPE; thermal effects: cataracts, burns at high...

FCC OET Bulletin 65 + 29 CFR 1910.268(o) + 47 CFR 1.1310

- Maximum Permissible Exposure (MPE) for controlled environments (occupational) and uncontrolled environments (general public) per 47 CFR 1.1310 and OET Bulletin 65

FCC 47 CFR 1.1310 / OET Bulletin 65

- workers on towers with active transmitters exposed to radiofrequency (RF) radiation; FCC Maximum Permissible Exposure limits apply; OSHA enforces via 1910.268(o) and General Duty Clause; workers must maintain safe distance from active antennas or power down before approach; RF personal monitors...

29 CFR 1910.268(o) + FCC OET Bulletin 65 + OSHA communication tower resources

- Maximum Permissible Exposure (MPE) for controlled environments (occupational) and uncontrolled environments (general public)
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- maintaining distance from active antennas or reducing transmitter power before approach per FCC MPE limits
- the furnishing of a capability to signal or communicate at a distance by means such as telephone, telegraph, police and firealarm, community antenna television, or similar system, using wire, conventional cable, coaxial cable, wave guides, microwave transmission, or other similar means

29 CFR 1910.269(b)

- compliance with the provisions of § 1910.303 through § 1910.308(d)
- antenna discharge unit to drain static charges
- RF site survey and hazard assessment before work, personal RF monitors, understanding of controlled vs uncontrolled environment limits, collocated antenna awareness

FCC / IEEE C95.1-2019 / OSHA-FCC MOU

COMPANY PROCEDURES

Guy's Construction implements the following procedures for rf exposure assessment:

- Guy's Construction shall: the words "Warning-Radio-Frequency Radiation Hazard" in the upper triangle

29 CFR 1910.97(a)(3)(i)

- Guy's Construction shall: a red isosceles triangle above an inverted black isosceles triangle, separated and outlined by an aluminum color border

29 CFR 1910.97(a)(3)(i)

- Guy's Construction shall: residential buildings
- Guy's Construction shall: Maximum Permissible Exposure (MPE) for controlled environments (occupational) and uncontrolled environments (general public)
- Guy's Construction shall: antenna discharge unit to drain static charges

TRAINING REQUIREMENTS

- All employees involved in this scope of work must receive initial training before beginning work
- Refresher training when procedures change or deficiencies are observed
- Training must be documented with date, topic, trainer, and attendees

RECORDKEEPING

- Training records: duration of employment
- Inspection/monitoring records: project duration + 3 years
- Incident reports: 5 years

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California STATE-SPECIFIC REQUIREMENTS (FULL)

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