



API RP 755, 2nd ed

# FATIGUE RISK MANAGEMENT SYSTEMS FOR PERSONNEL IN THE REFINING AND PETROCHEMICAL INDUSTRIES



## PROTECTS THE PUBLIC, EMPLOYEES, CONTRACTORS, THE ENVIRONMENT

RP 755 provides guidance to employees, managers, and supervisors on understanding, recognizing, and managing fatigue in the workplace. RP 755 also outlines how owners and operators should establish policies and procedures to address fatigue in the workplace.



## LEADS IN CONVENING SUBJECT MATTER EXPERTS

API is the global leader in convening subject matter experts to establish and maintain consensus standards for the oil and gas industry. These standards further safety, efficiency, environmental protection, and sustainability across the industry.

A voluntary consensus committee convened to advance and update RP 755 that included: labor, government, national trade associations, consultants, and industry owners, operators, and engineers. This document builds on the 1<sup>st</sup> edition that was developed and based on a recommendation by the Chemical Safety Board (CSB) in 2007, following a refinery incident.



## CLARIFIES AND CONDENSES REQUIREMENTS TO AVOID WORKER FATIGUE

The 2<sup>nd</sup> edition of RP 755 further improves on the original standard and helps refineries and petrochemical facilities manage fatigue for all workers involved in safety sensitive positions. The more significant revisions include:

- **Limits to Hours of Service:** Decreasing opportunities for misunderstanding, with the updated guidelines applicable to all employees involved in process safety sensitive actions, including how to manage call outs (covered positions)
- **New Guidance on the Work Environment:** Including new requirements regarding lighting and fatigue assessment based on advances in the science
- **Individual Risk Assessment and Mitigation:** Growing availability of technology that can detect fatigue, and includes guidance using objective, validated tools for assessing fatigue
- **“Shoulds” v. “Shalls”:** Changing several sections from “should perform” to “shall perform” to clarify that all components of Fatigue Risk Management Systems are needed, while retaining flexibility in how they are implemented

## RP 755 BACKGROUND

This document was developed for refineries, petrochemical and chemical operations, natural gas liquefaction plants, and other facilities such as those covered by the OSHA Process Safety Management Standard, 29 CFR 1910.119. This document is intended to apply to a workforce that is commuting daily to a job location.

RP 755 applies to all employees working night shifts, rotating shifts, extended hours/days or call outs involved in process safety sensitive actions. It should also be considered for others making process safety-sensitive decisions. On-site contractors involved in process safety sensitive actions shall have fatigue risk management systems equivalent to the criteria outlined in this document.

## HOURS OF SERVICE LIMITS

### NORMAL OPERATIONS

Total hours (including hand-offs, holdovers, and overtime) shall not exceed:

 **14 Hours** per shift

 **92 Hours\*** per work-set

Work-set considered complete when an employee is off work for at least:

**34 hours** if work-set did not include 4+ night shifts

**46 hours** if work-set did include 4+ night shifts

\*For straight day assignments, the work-set limits may be extended up to 105 hours

### OUTAGES

Total hours (including hand-offs, holdovers, and overtime) shall not exceed:

 **14 Hours** per shift

 **182 Hours** per work-set

Work-set considered complete when an employee is off work for at least:

**34 hours** after the work-set

### CALL-OUTS

All call-outs count towards the hours-of-service limits.

### EXCEPTION PROCESS

- Utilized when exceeding hours-of-service
- Involves immediate supervisor and another management representative
- Documents risk assessment and mitigation plan

#### High risk exceptions:

- Work more than 18 hours in a single shift
- Return to work prior to having 8 hours off
- Work more than one extended shift (greater than 14 hours) per work-set
- Senior site management shall be notified no later than following business day