

# **U.S. Chemical Safety and Hazard Investigation Board**

# **SUBJECT:** Recommendations Program

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- 1. <u>PURPOSE</u>. This Order defines the U.S. Chemical Safety and Hazard Investigation Board (Board/CSB) policies for:
  - a. The Board and staff responsibilities concerning CSB-issued recommendations;
  - b. The attributes, development, issuance, follow-up, advocacy, closure, and tracking and record-keeping policies for CSB recommendations;
  - c. Agency expectations of recommendation recipients;
  - d. The coordination and documentation of recommendation activities across the Agency; and,
  - e. The public availability of documents related to recommendations activity.
- 2. **EFFECTIVE DATE.** This Order is effective upon adoption by the Board.

#### 3. <u>REFERENCES</u>.

- a. 42 USC § 7412 (r)(6) (CSB statutory authority)
- b. 40 CFR § 1600.3 (CSB regulations regarding functions that address Recommendations.)
- c. CSB Board Order 001: Quorum, Voting, and Meeting Procedure (BO 001)
- d. CSB Board Order 028: Executive and Administrative Functions of the Board and Board Member Roles and Responsibilities (BO 028)

#### 4. <u>RESPONSIBILITIES</u>.

- a. The Board votes to issue (via approval of an investigation report, safety study, or other similar product), assign statuses to, and close recommendations as prescribed by BO 001 and BO 028.
- b. The Office of Investigations has the lead responsibility for developing draft recommendations for consideration by the Board, in collaboration with the Office of Recommendations as prescribed in this Board Order.
- c. The Office of Recommendations has the lead responsibility for developing recommendation evaluations for consideration by the Board, in collaboration with the Office of Investigations, as well as responsibility for recommendation follow-up, tracking and record-keeping as prescribed in this Board Order.

#### 5. <u>DEFINITIONS.</u>

- a. **Recommendation:** A specific and measurable course of action directed to a specific party, based on the findings and conclusions of incident investigations, safety studies, or similar products. The objective of recommendations is to prevent the recurrence or reduce the likelihood or consequences of similar incidents or hazards in the future, to as great an extent as possible (e.g., recommendations likely to have impact at the national level, recommendations likely to reduce high risks experienced by a particular segment of industry, etc.). Recommendations shall seek preventive actions in societal, regulatory, technical, management system, organizational, and human or other factors associated with incidents or hazards.
- b. **Interim Recommendation:** A recommended course of action that is issued during an investigation, prior to the issuance of the final report.
- c. Urgent Recommendation: An urgent recommended course of action issued if:
  - (1) An issue is identified during the course of an investigation that is considered to be an imminent hazard and has the potential to cause serious harm unless it is rectified in a short timeframe:
  - (2) A hazard is identified that is likely to exist in a large segment of industry such that the probability of an incident is significant; or,
  - (3) Emergency temporary rule-making or standard setting is necessary due to a significant, imminent hazard.
  - Urgent recommendations require significant and immediate communication and coordination and are meant to be implemented within a 6-month timeframe as detailed in Section 6.j.
- d. **Reiterated Recommendations:** Highlighting an existing open recommendation when the same issue is raised to the same recipient again in an investigation report, safety study, or other appropriate product. The purpose is to demonstrate that the issue is recurring and to advocate for the open (reiterated) recommendation to be implemented.
- e. **Recommendation Response:** Communication (e.g., letter, fax, electronic correspondence, etc.) from the recipient of a recommendation, either accepting a recommendation and providing a description and/or documentation of the steps taken or planned to implement it or refusing to implement a recommendation and providing the rationale for the refusal.
- f. **Response Evaluation:** A review by staff of a recommendation response and its supporting documentation, evaluating whether or not the recipient successfully implemented the recommendation. It is a pre-decisional document not to be released to the public.

g. **Recommendation Status:** A classification that describes the degree of implementation of a recommendation, proposed by staff in accordance with Section 6.h. and assigned by a vote of the Board.

## 6. <u>RECOMMENDATION DEVELOPMENT AND EVALUATION POLICIES</u>.

a. **General Attributes of Recommendations:** Recommendations are the primary CSB tool for prevention of chemical incidents. Their effective development and implementation is a key objective of investigations, studies, and other similar products of the CSB. In general, CSB recommendations should be only as prescriptive as necessary. Each individual recommendation has only one recipient. CSB recommendations should not normally be issued if the recommendation does not have a causal link to the incident.

The language of the Clean Air Act Amendments of 1990 and its legislative history emphasize recommendations to OSHA and EPA, but they also permit the CSB to issue recommendations to other parties whose actions will similarly "prevent or minimize the consequences" of releases of chemicals substances.

The emphasis of CSB recommendations shall be to reduce chemical hazards in as broad a manner as possible (e.g., through recommendations that will bring about national preventive changes). National legislative, regulatory, voluntary consensus standard and industry recommended practice changes shall be the primary focus of attention of recommendations, because of their national impact and the force of implementation generally or explicitly supporting them.

In addition to federal legislative and regulatory changes, recommendations by the Board may also call for a wide range of preventive measures at the state or local levels, through new or revised voluntary consensus standards and industry guidelines, improvements in safety management systems of companies or other entities, adoption of inherently safe processes, technologies or materials, changes in equipment design, research or data collection efforts, communication of safety information, and other activities.

Recommendations may be issued to a variety of appropriate parties, including federal, state or local regulatory, executive or legislative bodies and agencies, specific firms or establishments, equipment manufacturers, trade associations, trade unions, standards development organizations, professional organizations, safety organizations, research and educational institutions, emergency response organizations and public interest groups.

b. **Recommendation Development:** The Board issues recommendations based upon the findings and conclusions of incident or hazard investigation reports, safety studies, or similar products. The Office of Investigations shall have primary responsibility for recommendations development, in collaboration with the Office

of Recommendations.

Recommendations proposed to the Board should:

- (1) Describe a causal link to the incident or a rationale that links the findings of an investigation, study, or similar product with explicit conclusions that factually support the need and basis for the recommendation; and
- (2) Reflect the consensus of the Office of Investigations and Recommendations.

## c. Recommendation Issuance, Closure and Status Assignment:

Recommendations are issued, closed or assigned to a given status by vote of the Board. Both regular and urgent recommendations may be issued before the completion of an investigation report, study, or other similar product, if the supporting findings and conclusions are sufficient to support it.

- d. **Notification of Recipients of Recommendations:** Recipients are notified that a recommendation has been issued by the Board through a letter from the Chairperson or his/her designee. Recommendations staff will draft the letters for review and signature by the Chairperson or his/her designee. The letter will request a response containing a plan for the recommendation implementation, an estimated timeframe for implementation, and point of contact who is an employee of the recommendation. Information for accessing the investigative report, safety study or other relevant document is also provided to convey the facts and analysis that form the basis for the recommendation.
- e. **Agency Expectations of Recommendation Recipients:** The CSB expects recommendation recipients to:
  - (1) Engage in discussion with CSB staff regarding the rationale, language, benefits, potential obstacles and other factors related to implementation of the proposed recommendation, both prior and subsequent to the issuance of the recommendation.
  - (2) Maintain in confidence, with no disclosure to outside parties, the potential content or other aspects of a proposed recommendation, until after the recommendation has been officially approved by a Board vote.
  - (3) Upon receipt of a recommendation, respond to the CSB within the timelines described in this Order, including a description and/or documentation of the steps taken or planned to implement the recommendation, and a written timetable for completion; or refusing to implement a recommendation and providing the rationale for the refusal.
  - (4) Provide the CSB and maintain current the name, title and contact information of the employee(s) who will serve as the point of contact of the CSB with the recipient's organization.
  - (5) Keep the CSB apprised of the progress of the implementation of recommendations on a periodic basis and advise the CSB in a timely manner

- concerning any unanticipated delays in implementing the recommendation that extend beyond the timetable previously agreed upon.
- (6) Upon receipt of a recommendation from the CSB, comply with the deadlines for response described in subsequent sections of this Order.

After completing implementation of a recommendation, the CSB expects recipients to:

- (1) Provide sufficient evidence or documentation of implementation of the recommendation. Such documentation may include official statements concerning actions taken, copies of relevant documents (e.g., policies, procedures, and standards, photographs of changes, copies of external audits, and others); and
- (2) Clearly identify any information deemed by the recipient to be confidential, and the rationale for this conclusion, consistent with CSB policies for confidential business information.
- f. **Follow-Up of Recommendations:** The following sections provide general guidance for the follow-up and evaluation of recommendation responses by recipients.
  - (1) Recommendations staff shall monitor each recommendation on a periodic basis, at least once every 12 months, through follow-up contacts. Follow-up actions include electronic, written, and phone communications from staff or the Chairperson or his/her designee. On occasion, follow-up may also entail meetings with the recipients, site visits, or participation as observers in ongoing activities (e.g., conferences, meetings, standard committee meetings, etc.).
  - (2) Recommendations staff shall maintain retrievable electronic records of all recommendations (open and closed), recommendation responses and related correspondence, including supporting documentation, summaries or copies of communications with recipients, and recommendation evaluations acted upon by the Board. Records shall comply with CSB record retention policies.

#### g. Evaluation of Recommendation Responses from Recipients:

- (1) Staff from the Office of Recommendations shall review recommendation recipient responses and their supporting documentation on a timely basis, with reference to the objectives of the recommendation, and:
  - (a) Request clarification and/or additional information from the recipient if necessary; and
  - (b) When sufficient documentation is available, or when deadlines as defined elsewhere in this Order are exceeded, develop a written evaluation for the Board with the proposed changes of status, based upon the documentation received from the recipient and other relevant information.

- (2) Draft evaluations shall be developed by the Office of Recommendations in collaboration with the Office of Investigations, who shall provide technical input as appropriate.
- (3) Draft evaluations shall:
  - (a) Contain a clear rationale that links the basis of the recommendation(s) as found in the investigation, study, or similar product with information provided by the recipient or other forms of fact-finding that factually supports the proposed status contained in the evaluation;
  - (b) Reflect the consensus of the Office Investigations and Recommendations; and,
  - (c) Have been communicated with recipients prior to submission to the Board, when an "unacceptable" status is involved.
- (4) Draft evaluations shall be developed within 270 days of receipt of all necessary documentation from the recipient(s).
- (5) Draft evaluations shall be reviewed by the Director of Recommendations, and the Chairperson and/or his/her designee, as desired, and submitted to the Office of General Counsel to provide to the Board for either a vote during a public meeting or a notation vote.
- (6) All evaluations shall include a proposed status for the recommendation.
- (7) Following Board action, a letter from the Chairperson or his/her designee shall be sent to the recommendation recipient. The letter will describe the change of status and may request additional information or documentation the Board needs for future decisions.
- h. **Recommendation Statuses:** Following the evaluation of recommendation responses, recommendations may be assigned any one of the following statuses:
  - (1) Open Awaiting Response or Evaluation/Approval of Response (O ARE/AR): The initial status of a recommendation following the Board approval of a report, safety study, or other appropriate product that issued the recommendation. In this status, the recipient has not submitted a substantive response, or the evaluation by CSB staff of a response is pending, or the Board has not yet acted on a staff-proposed status.
  - (2) Open Acceptable Response or Alternate Response: The response from the recipient indicates a planned action that would satisfy the objective of the recommendation when implemented, including a written timetable for completion.
  - (3) Open Unacceptable Response/No Response Received:
    - (a) A response to the recommendation has not been received within 270 days of the issuance of the recommendation, and the Board concludes that further dialogue and advocacy may persuade the recipient to act.

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- (b) The recipient responds by expressing disagreement with the need outlined in the recommendation or attempts to convince the Board (unsuccessfully) that an alternative course of action is acceptable. The Board concludes, however, that there is enough evidence that further dialogue or advocacy may persuade the recipient to implement it. The communication with the recipient will make it clear that the basis for the recommendations remains valid and that the Board may revise the status classification if the recipient subsequently takes action to implement it and provides the CSB with adequate evidence. In addition, the recipient will be advised that, in the absence of any effort to implement the recommendation, the status will be changed to "Closed— Unacceptable Action/No Response Received" if the recipient fails to meet the deadlines described in Section 6.i. below.
- (4) <u>Closed Acceptable Action:</u> The recipient has successfully completed action on the recommendation. The action taken was as specified by the Board in the original recommendation.
- (5) <u>Closed Acceptable Alternative Action:</u> The recipient has successfully completed action on the recommendation. The action taken was approved by the Board as an acceptable alternative to the original recommendation language that meets the objectives or a majority of the objectives envisioned by the Board. This status may also be applied if the recommendation is successfully implemented by an entity other than the recommendation recipient.
- (6) <u>Closed Exceeds Recommended Action:</u> Action on the recommendation meets and surpasses the objectives envisioned by the Board, in a manner that enhances the extent of reduction of future risk.
- (7) <u>Closed Unacceptable Action/No Response Received:</u>
  - (a) A response to the recommendation has not been received within 270 days of the issuance of the recommendation, and the Board concludes that further dialogue or advocacy will not persuade the recipient(s) to act, or
  - (b) Recipient responds by expressing disagreement with the need outlined in the recommendation, and the Board does not consider that any alternative action can persuade the recipient to implement the recommendation, or
  - (c) A recipient expresses disagreement with the recommendation and offers an alternative response, but the Board concludes that the recipient has not provided sufficient evidence that the alternative is acceptable or that the recommendation should be reconsidered, and that further actions are unlikely to change the recipient's views. This status does not impact the validity of the original recommendation, and the Board may change the status based upon receipt of evidence of successful implementation of the recommendation by the recipient in the future, or
  - (d) A recommendation was initially classified as "Open- Unacceptable Response/No Response Received," but the Board no longer considers it possible that further dialogue or other actions will persuade the recipient to implement the recommendation, or the time deadlines under Section 6.i. below have been exceeded, and

- (e) At its discretion, the Board may issue a public statement about the recipient's failure to implement the recommendation.
- (8) <u>Closed No Longer Applicable:</u> Due to subsequent events, the recommended action no longer applies (e.g., the facility was destroyed and not rebuilt, or the company went out of business). This status may also be applied when a recommendation is dependent upon the implementation of another recommendation that has been closed without being implemented.
- (9) <u>Closed Reconsidered/Superseded:</u> Recipient rejects the recommendation based on a rationale with which the Board concurs. Reasons for this status may include, for example, situations when later facts indicate that the conclusions of the Board should be modified, that concerns expressed in the recommendation were addressed prior to the incident, when a recommendation should have been directed to a different recipient, when a recommendation is determined to be infeasible for implementation, or when a recommendation is superseded by a new, more appropriate recommendation.

## i. Deadlines for Recommendations (Non-urgent)

- (1) If no response is received within 90 calendar days of issuance of a recommendation, CSB staff will send a follow-up letter to the recipient urging a report on actions considered or taken and supporting documentation.
- (2) If no response is received within 270 calendar days of issuance, the staff will propose to the Board that the recommendation be classified as "Open Unacceptable Action/No Response Received."
- (3) At the end of three years of assignment of "Open—Unacceptable Response /No Response Received," if the recipient has not completed satisfactory action, CSB staff will review the recommendation and associated action. If the ongoing action is making progress towards the objectives of the recommendation, or there are compelling reasons for going beyond three years for implementation, the recommendation will remain in an "Open" status. If it is determined that the action could have been completed in three years or less, CSB staff will propose that the Board to classify the recommendation as "Closed Unacceptable Action." If the Board agrees, the recipient will receive a letter signed by the Chair noting that the new status is being assigned due to a lack of timeliness of implementation.
- (4) Final action on recommendations that did not require urgent attention should generally be completed as soon as possible, but no later than 3 to 5 years after issuance of the recommendation. If the action is not completed within five years from the issue date of the recommendation, staff will review the record and determine whether further time should be allowed. If staff determines that the action could have been completed within the 5-year period, CSB staff will recommend that the Board classify the recommendation as "Closed Unacceptable Action/No Response Received." Recommendations will remain open past five years past the date of issuance under justifiable circumstances. For example, regulatory recommendations to OSHA, EPA and other federal,

state, or local agencies, or recommendations to legislative bodies, may require more than five years for completion.

#### j. Urgent Recommendations - Issuance, Follow-Up and Deadlines

- (1) Urgent Recommendations may be issued in advance of the completion of an investigation report, hazard study, or similar activity, as soon as findings exist to support it.
- (2) Urgent Recommendation notification letters will request a response within 30 days of issuance of the recommendation. If no response is received within 30 calendar days of issuance, CSB staff will contact the recipient asking for a written response.
- (3) If no response is received within 90 calendar days of the issuance of an Urgent Recommendation, the Chairperson or his/her designee shall send the recipient a letter re-emphasizing the need for prompt action.
- (4) If an Urgent Recommendations has not been satisfactorily implemented within 6 months of issuance, implementation progress is inadequate, or completion does not appear imminent, the recommendation shall be re-classified as an "Open Unacceptable Response/No Response Received." The Chairperson or his/her designee will contact the recipient with this information, summarizing the rationale for the Board's decision and urging expedited action.
- (5) Because Urgent Recommendations involving federal or other regulatory actions, legislative actions, or development or review of voluntary consensus standards are often likely to require longer than six months for full implementation, the CSB may extend this deadline by vote of the Board. The Board may request interim action to mitigate the hazard (e.g., warnings to affected parties, increased enforcement) while appropriate regulations or standards are promulgated by the recipient agency or other entity.
- (6) If at any point after issuance of an Urgent Recommendation the Board concludes that the recommendation no longer requires immediate action, the Board may vote to remove that classification, and routine follow-up shall continue as described in Section 6.i. above.

## 7. RECOMMENDATION INFORMATION, TRACKING AND STATISTICS

Recommendations staff will maintain an electronic database of:

- a. Correspondence and other records (e.g., notes of phone conversations) of exchanges with recommendation recipients;
- b. Copies of documentation submitted by recommendation recipients;
- c. Copies of recommendation evaluations, and their supporting evidence;
- d. Summary statistics describing performance in recommendation action; and,

e. Other relevant records related to the follow-up, advocacy, evaluation and closure of recommendations.

Stored recommendation information shall comply with CSB record retention policies.

#### 8. RECOMMENDATION DATA QUALITY AND CONTINUAL MPROVEMENT

- a. The Office of Recommendations will conduct an annual Data Quality Audit.
- b. A written report of the Data Quality Audit shall be provided to the Board and the Office of Investigations and Recommendations.
- c. The Director of Recommendations will periodically analyze follow-up activities, data quality, effectiveness of closure and related factors to identify and implement improvement in the recommendations processes.

#### 9. PUBLIC AVAILABILITY OF RECOMMENDATIONS INFORMATION

- a. Recommendations issued by the Board, and descriptive statistics about the status of all CSB recommendations (e.g., number issued, percentage closed, etc.) shall be made available on the CSB website, as well as through published reports and other means, as appropriate.
- b. Final Board-approved status change summaries shall be made publicly available.

#### 10. BOARD INTERACTIONS

- a. In the event that a Board member questions an evaluation during a voting period, the Office of Recommendations will develop a written response that includes the question(s) and answer(s). The clarifications by staff shall be made available to all Board members before the voting period closes, whenever possible, as prescribed by BO 001. A copy of the question and answer shall be placed in the records database along with the Board vote. In the case of a recommendation evaluation considered during a public meeting, the Board vote may be deferred as prescribed by BO 001, until the Office of Recommendations provides answers to Board questions.
- b. Periodic Reports to Board Recommendations staff will present periodic information to the Board, and/or the Office of Investigations and Recommendations to summarize the status of specific recommendation activities, including progress in closing recommendations as well as steps planned or recommended to encourage implementation by recipients.

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# U.S. CHEMICAL SAFETY AND HAZARD INVESTIGATION BOARD

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