

**IN THE UNITED STATES COURT OF APPEALS
FOR THE DISTRICT OF COLUMBIA CIRCUIT**

State of New York, District of Columbia,
State of Delaware, State of Illinois,
State of Maine, State of Maryland,
Commonwealth of Massachusetts, People of
the State of Michigan, State of Minnesota,
State of New Jersey, State of New Mexico,
State of Oregon, Commonwealth of
Pennsylvania, State of Rhode Island,
State of Vermont, State of Washington,
State of Wisconsin, City of Philadelphia,
and Harris County,

Petitioners,

v.

Andrew Wheeler, as Administrator of the
Environmental Protection Agency, and the
Environmental Protection Agency,

Respondents.

Case No. 20-1437

PETITION FOR REVIEW

Pursuant to Federal Rule of Appellate Procedure 15, D.C. Circuit Rule 15, and section 307(b) of the Clean Air Act, 42 U.S.C. § 7607(b), the State of New York, District of Columbia, State of Delaware, State of Illinois, State of Maine, State of Maryland, Commonwealth of Massachusetts, People of the State of Michigan, State of Minnesota, State of New Jersey, State of New Mexico, State of Oregon, Commonwealth of Pennsylvania, State of Rhode Island, State of Vermont, State of

Washington, State of Wisconsin, City of Philadelphia, and Harris County (collectively, the “State Petitioners”), petition this Court to review the Environmental Protection Agency’s (“EPA”) final agency action, attached hereto as Exhibit A, denying the State Petitioners’ petition for reconsideration of the final rule, “Accidental Release Prevention Requirements: Risk Management Programs Under the Clean Air Act,” 84 Fed. Reg. 69,834 (Dec. 19, 2019). A copy of the State Petitioners’ petition for reconsideration is attached hereto as Exhibit B. Notice of EPA’s denial of the petition for reconsideration was published in the Federal Register on September 4, 2020. *See* “Accidental Release Prevention Requirements: Risk Management Programs Under the Clean Air Act; Final Action on Petitions for Reconsideration,” 85 Fed. Reg. 55,286 (Sept. 4, 2020). A copy of the notice is attached hereto as Exhibit C.

State Petitioners seek a determination by this Court pursuant to section 307(d)(9) of the Clean Air Act, 42 U.S.C. § 7607(d)(9), that EPA’s denial of their petition for reconsideration is unlawful and therefore must be vacated.

November 3, 2020

Respectfully Submitted,

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Exhibit A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

August 21, 2020

THE ADMINISTRATOR

Michael J. Myers, Senior Counsel
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Dear Mr. Myers and Ms. Kam:

I am responding to your February 18, 2020 petition for reconsideration on behalf of the State of New York, District of Columbia, State of Delaware, State of Illinois, State of Maine, State of Maryland, Commonwealth of Massachusetts, People of the State of Michigan, State of Minnesota, State of New Jersey, State of New Mexico, State of Oregon, Commonwealth of Pennsylvania, State of Rhode Island, State of Vermont, State of Washington, State of Wisconsin, and City of Philadelphia (collectively, the “States” or “petitioners”) regarding the U.S. Environmental Protection Agency’s final rule titled “Accidental Release Prevention Requirements: Risk Management Programs Under the Clean Air Act” (2019 RMP final rule, 84 FR 69834, December 19, 2019). The final rule rescinded or modified certain provisions added to the Risk Management Program (RMP) regulations by amendments made in 2017 (2017 RMP Amendments rule, 82 FR 4594, January 13, 2017). The 2019 RMP final rule rescinded amendments relating to safer technology and alternatives analyses (STAA), third-party audits, incident investigations, information availability, and several other minor regulatory changes. EPA also modified regulations relating to local emergency coordination, emergency response exercises, and public meetings. In addition, the Agency changed compliance dates for some of these provisions.

Your petition contained three primary objections to the 2019 RMP final rule:

- (I) that EPA ignored new information about serious chemical accidents, including the explosion at the Philadelphia Energy Solutions (PES) Refinery in Philadelphia, Pennsylvania; the explosion and fire at the TPC Group chemical plant in Port Neches, Texas; the explosion at Watson Grinding and Manufacturing in Houston, Texas; and others;
- (II) that EPA ignored the recommendations of the U.S. Chemical Safety and Hazard Investigation Board (CSB) in an April 2019 letter concerning hydrogen fluoride (HF); and,

(III) that EPA ignored the report from its Office of Inspector General, *EPA Needs to Improve its Emergency Planning to Better Address Air Quality Concerns During Future Disasters*, Report No. 20-P-0062 (Dec. 16, 2019).

The States allege that each objection either arose after the period for public comment on the 2019 RMP final rule or were impracticable to raise during that comment period. The States also allege that these objections are of central relevance to the outcome of the rule. The petition concludes that EPA must grant reconsideration pursuant to section 307(d)(7)(B) of the Clean Air Act (CAA)¹ and stay the 2019 RMP final rule.

After careful review of the objections raised in the petition for reconsideration, EPA denies the petition, as well as the request that the 2019 RMP final rule be stayed. The States have failed to establish that the objections meet the criteria for reconsideration under section 307(d)(7)(B) of the CAA. Section 307(d)(7)(B) of the CAA requires the EPA to convene a proceeding for reconsideration of a rule if a party raising an objection to the rule

"can demonstrate to the Administrator that it was impracticable to raise such objection within [the public comment period] or if the grounds for such objection arose after the period for public comment (but within the time specified for judicial review) and if such objection is of central relevance to the outcome of the rule."

The requirement to convene a proceeding to reconsider a rule is, thus, based on the petitioner demonstrating to the EPA both: (1) that it was impracticable to raise the objection during the comment period, or that the grounds for such objection arose after the comment period but within the time specified for judicial review (i.e. within 60 days after publication of the final rulemaking notice in the Federal Register, see CAA section 307(b)(1)); and (2) that the objection is of central relevance to the outcome of the rule.

The discussion below addresses each of the objections raised in the petition.

I. Recent Accidents, Accident Severity, and Accidents After Enforcement

The States' first objection is that EPA has ignored new information about chemical accidents that continue to occur, including the explosion at the PES Refinery in Philadelphia, Pennsylvania; the explosion and fire at the TPC Group chemical plant in Port Neches, Texas; the fatal explosion at the Watson Grinding and Manufacturing in Houston, Texas; and other information about accidents that was submitted to EPA in letters from the Attorneys General of New York, Pennsylvania, Illinois, Iowa, Maine, Maryland, Massachusetts, Michigan, New Jersey, New Mexico, Oregon, Rhode Island, Vermont, and Washington on August 20, 2019 ("States' Supplemental Comments") and October 28, 2019 ("States' Second Supplemental Comments"). State petitioners claim that these chemical accidents undercut EPA's final rule decision to rescind provisions of the 2017 RMP Amendments rule. State petitioners also claim that in the 2019 RMP final rule, EPA focused only on the number of accidents at RMP facilities, rather than the severity of several "high profile" accidents that petitioners claim demonstrate the need for better safeguards. State petitioners also claim that several recent accidents occurred at facilities where EPA or a state agency had already taken enforcement action, and that

¹ Section 307(d)(7)(B) of the CAA, 42 U.S.C. § 7606(d)(7)(B), provides:

Only an objection to a rule or procedure which was raised with reasonable specificity during the period for public comment (including any public hearing) may be raised during judicial review. If the person raising an objection can demonstrate to the Administrator that it was impracticable to raise such objection within such time or if the grounds for such objection arose after the period for public comment (but within the time specified for judicial review) and if such objection is of central relevance to the outcome of the rule, the Administrator shall convene a proceeding for reconsideration of the rule and provide the same procedural rights as would have been afforded had the information been available at the time the rule was proposed. If the Administrator refuses to convene such a proceeding, such person may seek review of such refusal in the United States court of appeals for the appropriate circuit (as provided in subsection (b)). Such reconsideration shall not postpone the effectiveness of the rule. The effectiveness of the rule may be stayed during such reconsideration, however, by the Administrator or the court for a period not to exceed three months.

these accidents undercut EPA's reliance on enforcement to prevent accidents. EPA addresses each of these claims below.

A) Post-comment period accidents at PES, TPC Group, Watson Grinding, and other facilities

The EPA disagrees that serious accidents that occurred at PES, TPC Group, Watson Grinding, or other facilities after the close of the public comment period satisfy the requirements for reconsideration under CAA section 307(d)(7)(B). This claim is similar to claims made by several commenters on the proposed Reconsideration rule (83 FR 24850, May 30, 2018) – claims that EPA addressed in the preamble to the final rule and in the Response to Comments (RTC) document for the final rule.² The issue of the significance of continuing accidents on our view that the pre-Amendments RMP rule was effective at preventing accidental releases had been plainly raised for comment.

In public comments on the 2018 proposed rule, several commenters claimed that the costs of repealing the Amendments rule would greatly exceed its benefits. For example, one commenter stated,

“EPA’s estimate of \$88 million per year savings from rescinding Amendments rule provisions was more than offset by potential losses of Amendments rule benefits of up to \$270 million per year, which did not include additional costs such as contamination, lost productivity, emergency response, property value impacts, and health problems from chemical exposures.” *See* 84 FR at 69869 and RTC at 215.

In the final rule preamble, EPA responded, in part,

“The Agency did not claim that the prevention program provisions of the Amendments rule would prevent all future accidents, and there is no reason to expect that this would have occurred.” *See* 84 FR at 69870.

EPA further elaborated on this response in the RTC by stating,

“the Agency did not expect that [the Amendments Rule] would prevent all future accidents. This would have been impossible, since the [STAA] provision applied to only three industry sectors responsible for only 12.4% of RMP facilities and less than half of RMP-reportable accidents over the 10-year period of study.” *See* RTC at 216.

One commenter claimed that the proposed rule was “inherently contradictory” because EPA recognized that the incident data shows a need for certain emergency response coordination and public meeting requirements while also arguing that the same need does not exist for the prevention program requirements. *See* RTC at 59. EPA disagreed with this comment, stating,

“At no point in the record for the RMP Amendments rule or the Reconsideration rule do we represent that either the pre-Amendments prevention program or the addition of STAA, third-party audits, or root cause analyses to the prevention programs will prevent all accidental releases. There will still be accidents that will need responses with or without the prevention program amendments rescinded today.” *See* RTC at 61.

The observation that accidental releases continued to occur after the close of comments, absent some unique or new fact that a particular incident or set of incidents demonstrates, is not significant new information because the Agency never took the position that there would be no accidents after either the 2017 RMP Amendments or the 2019 RMP final rule. EPA was fully aware that some accidents would continue to occur, with or without the 2017 Amendments rule provisions. That the accidents identified in the Petition were severe, in the Petitioners’ view, does not distinguish these incidents from others discussed in comments. The issue of the benefits of preventing accidents was prominently raised in the 2018 proposed rule and commented upon by Petitioners and others. Your petition would set a rulemaking standard – preventing all accidental releases at

² EPA, Response to Comments on the 2018 Proposed Rule (May 30, 2018; 83 FR 24850) Reconsidering EPA’s Risk Management Program 2017 Amendments Rule (January 13, 2017; 82 FR 4594). The RTC is available in the rulemaking docket at www.regulations.gov as item EPA-HQ-OEM-2015-0725-2086.

RMP facilities nationwide – that would be impossible for EPA to meet with the provisions affected by the 2019 RMP final rule. The petition provides no evidence, new or otherwise, that the specific rule provisions rescinded or changed in the 2019 RMP final rule would have prevented or mitigated the accidents listed in the petition. Furthermore, it would be impossible to complete a rulemaking if the mere occurrence of an accident after the close of comments was sufficient to require EPA to reopen its record.

The petition also claims that accidents listed in States’ Supplemental Comments and referred to in States’ Second Supplemental Comments represent new grounds for objection of central relevance to the 2019 RMP final rule. States’ Supplemental Comments claim that a series of accidents between August 23, 2018 (the end of the period for public comment of the proposed Reconsideration rule) and August 15, 2019, including accidents in states that co-signed the supplemental comment letter, as well as other states, represent new information that is centrally relevant to the proposed rule.

EPA’s response to the information on the 60 incidents listed in the appendix to States’ Supplemental Comments is the same as discussed above, where EPA showed how the Agency had addressed the issue of accidents, accident rates, and incident costs and impacts during the public comment period. In fact, several of the accidents listed in States’ Supplemental Comments are the same accidents submitted by another commenter.³ EPA responded to these comments in sections 3.1 and 10.6 of the RTC.⁴ Therefore, as this issue was raised in the proposal, received public comment and was addressed by EPA in the RTC and preamble to the final rule, the EPA finds that petitioners’ claim does not satisfy the requirements for reconsideration under CAA section 307(d)(7)(B). Petitioners have not demonstrated “that it was impracticable to raise such objection within such time or [that] the grounds for such objection arose after the period for public comment.”

We do not assert that an accident or set of accidents that occur after the close of comments cannot provide significant new information of central relevance. However, it would be observations or lessons learned from the incident that could provide such information (something not previously observed prior to the close of comments), or perhaps such information could be provided by a number of accidents that indicated a reversal of the accident rate at issue. When the petition discusses additional individual accidents that occurred after the close of comments, it does not provide an explanation of how these individual incidents establish that the accident history EPA relied upon is invalid. The petition does not argue that we learn anything other than accidents continued after the close of comments. In fact, for much of that time at least some of the rescinded prevention provisions were in effect. While accident prevention is clearly a core concern of the risk management program, neither the 2017 Amendments nor the 2019 RMP final rule claimed there would be no accidental releases once the rules were in effect, so the mere fact that accidental releases continued cannot be of central relevance to EPA’s final rule decision.

States’ Supplemental Comments also discuss CSB investigations of recent accidents and include claims about alleged lessons learned from these accidents, which the comments attempt to link to rescinded or modified rule provisions. For example, States’ Supplemental Comments cite the PES, MarkWest Energy, and Enterprise accidents as “demonstrating the importance of safety training for facility employees and effective coordination and exercises with local emergency responders and the public.” As an initial matter, we note that this claim is made by petitioner with little underlying support. The CSB’s PES accident investigation report has not yet been published, and the CSB’s factual update⁵ for the

³ See EPA-HQ-OEM-2015-0725-1969, p. 10. This commenter maintained a running compilation of accidents on their website from 73 incident reports that occurred between the Amendments rule original effective date of March 14, 2017 and September 21, 2018 when US Court of Appeals for the D.C. Circuit issued a mandate to make the Amendments effective.

⁴ See EPA. Response to Comments on the 2018 Proposed Rule (May 30, 2018; 83 FR 24850) Reconsidering EPA’s Risk Management Program 2017 Amendments Rule (January 13, 2017; 82 FR 4594). The RTC is available in the rulemaking docket at www.regulations.gov as item EPA-HQ-OEM-2015-0725-2086.

⁵ See [PES Factual Update](#) available at the CSB website for [Philadelphia Energy Solutions \(PES\) Refinery Fire and Explosions](#).

accident contains no mention that the accident highlighted lessons learned concerning safety training, exercises, or coordination with local responders. Petitioners did not submit, and EPA is not aware of, any investigation report for the MarkWest Energy incident that draws such conclusions. The CSB report for the Enterprise Products Midstream Gas Plant⁶ accident does not mention safety training. The report discusses coordination between facility personnel and local responders, and the facility's use of tabletop exercises for emergency response training, but it contains no recommendations to EPA and draws no connection to the rescinded provisions of the 2017 Amendments rule. To the extent the report promotes coordination with local responders and emergency exercises, this is entirely consistent with the 2019 RMP final rule, which retained the 2017 Amendments rule provisions on these areas with modifications. Therefore, this claim does not meet the criteria for reconsideration, as it does not present new information of central relevance to EPA's final rule action.

States' Supplemental Comments also claim that EPA's proposal to exclude findings from other incident investigations from required hazard reviews "undercuts facilities' ability to benefit from the lessons learned from other accidents." States use the Enterprise incident as an example of the potential harm of rescinding this provision by claiming that "a known equipment weakness would not have to be included in hazard reviews of similarly situated industries." This claim is similar to a claim made by petitioners in their comments on the proposed rule.⁷ EPA responded to those comments in the final rule and RTC. *See* 84 FR at 69883 and RTC at 152-153. We note that the Enterprise incident does not support petitioners' claim because the process involved in the incident was subject to RMP program level 3, which requires a process hazard analysis (PHA). The pre-Amendments rule already required PHAs to address previous incidents with the likely potential for catastrophic consequences, and the 2019 RMP final rule did not remove that requirement. *See* 40 CFR § 68.67(c)(2).

States' Supplemental Comments also claim:

"The CSB's admonition about the failures of the emergency response at DuPont's LaPorte facility is a reminder that the 2017 Accident Prevention Amendments ensure that the benefits of better and more frequent training, coordination with local responders, and effective dissemination of information to the public will be available to all Americans, regardless of where they live or the type of relationship the facility happens to have with its employees and local government."

Nothing in the final rule contradicts these benefits – the final rule still requires responder training, coordination with local responders, and availability of information to the public. Nevertheless, we note that this sweeping statement by petitioners goes well beyond the actual recommendations contained in the CSB report of this incident. For example, the report contains no recommendations for "effective dissemination of information to the public." The report's main recommendation is for DuPont to work with neighboring companies and labor unions to update the facility's emergency response plan, to include procedures for specific types of emergencies, regular maintenance for emergency equipment, responder training, update of emergency plan documents, and conducting drills. All of these measures were either already encompassed in the pre-Amendments RMP requirements or were added in the 2017 Amendments rule and retained by EPA in the 2019 RMP final rule. To the extent the petition is obliquely suggesting that the schedules for training and coordination and the methods for information dissemination are inappropriate, these issues were raised for comment in the proposal, States had the opportunity to comment on these issues, and the CSB report provides no information that was impracticable to raise in petitioner's comments on these issues.

States' Supplemental Comments also claim that the provisions of the 2017 Amendments rule that were rescinded by the 2019 RMP final rule would have prevented the DuPont La Porte incident, had they been in

⁶ *See* CSB, February 13, 2019, [Case Study: Loss of Containment, Fires, and Explosions at Enterprise Products Midstream Gas Plant](#), Report No. 2016-02-I-MS available on the CSB website for the [Enterprise Pascagoula Gas Plant](#).

⁷ *See* EPA-HQ-OEM-2015-0725-1925, available at www.regulations.gov.

effect. States' Supplemental Comments at 12. This claim is not supported by CSB's two published reports on this incident.⁸ Neither CSB's 2015 Interim Recommendations Report or its June 25, 2019 Final Investigation Report on this incident contain any conclusion supporting the claim that the Amendments rule would have prevented this accident, nor does either report contain any recommendation to EPA concerning provisions of the 2017 Amendments rule or the 2018 proposed Reconsideration rule. The report includes a section describing recent developments affecting the RMP rule, which includes a discussion of the 2018 proposed Reconsideration rule and mention (in a footnote) of the CSB's concerns over the proposed rule as conveyed in their public comments submitted to EPA. Despite its discussion of these matters, the report stops short of drawing any connections between the 2018 proposed rule and the causes of the incident.

The DuPont incident occurred in November 2014, over two years before EPA finalized the Amendments rule (January 13, 2017), and over six years prior to the compliance date for the major accident prevention requirements of the Amendments rule (i.e., the 2017 final Amendments rule required compliance with major accident prevention provisions by March 15, 2021. *See* 82 FR at 4678). EPA notes that the CSB Interim Recommendations report that addresses inherently safer design issues at DuPont was issued on September 30, 2015, well prior to the period for public comment of the 2018 proposed Reconsideration rule. Therefore, there is no reason that petitioners could not have raised relevant information from that report during the period for public comment. Additionally, even if the 2017 Amendments rule provisions had been in effect prior to the accident, petitioners' claim regarding third-party audits is implausible, as the CSB final report indicates that DuPont had already undergone both first- and third-party audits prior to the incident, and that neither audit "identified, prevented, or mitigated deficiencies in DuPont La Porte's implementation of its management system..."⁹ The CSB final report contains no recommendations related to incident investigation root cause analysis.¹⁰ Therefore, EPA does not view this accident or the CSB's investigation report as centrally relevant to the final rule, as the final rule is consistent with the lessons from this accident as reflected in the CSB final report recommendations.

States' Supplemental Comments also refer to the CSB's factual update on the April 2018 explosion and fire at the Husky Energy Refinery incident in Superior, Wisconsin. States' comments claim

"the update ... detailed how specialized training, joint exercises, and close coordination with the local responders allowed the response crew to use innovative methods to contain an asphalt fire that could have burned exponentially longer and in so doing, avoided potentially greater catastrophic losses and chemical releases from tanks surrounded by the fire." States' Supplemental Comments at 13.

EPA notes that the CSB has not released a final report for this incident, and neither of the two factual updates released by the CSB,¹¹ or the CSB's film reconstruction of the incident contain any recommendations to EPA or any mention of the 2018 proposed rule. To the extent the incident highlights the benefits of responder training, joint exercises, and coordination with local responders, it is consistent with the provisions of the 2019 RMP final rule, which retained the coordination and exercise provisions of the 2017 Amendments rule

⁸ *See* the CSB website for the [DuPont La Porte facility](#) incident.

⁹ *See* CSB, June 2019, [Toxic Chemical Release at the DuPont La Porte Chemical Facility, Investigation Report No. 2015-01--I-TX](#), p 67.

¹⁰ The CSB final report's recommendations to DuPont include a recommendation for "Developing and implementing written policy and procedures to update emergency response plan documents when hazards are identified. For example, personnel can identify these types of hazards in process hazard analyses, facility siting studies, management of change reviews, and incident investigations." *Id.* at 125. While this statement refers to updating emergency response plan documents to reflect findings from incident investigations, it does not specifically refer to root cause analysis. Also, the 2017 Amendments rule added a similar requirement for emergency response plan updates to be based on, among other things, new information obtained from incident investigations, and this requirement was retained in the 2019 RMP final rule.

¹¹ The CSB released factual updates in August 2018 and December 2018. *See* the CSB website for [Husky Energy Refinery Explosion and Fire](#).

with modifications. Therefore, EPA does not view this incident or the CSB factual updates as identifying significant new information that is centrally relevant to EPA's 2019 RMP final rule action.

In their discussion of CSB investigations, States' Supplemental Comments also contain statements and opinions of a former employee of the CSB, Dr. Daniel Horowitz made in an op-ed that appeared in the New York Times. States' Supplemental Comments at 15, 17. We note that Dr. Horowitz' employment with the CSB was terminated in June 2018, and he was placed on paid administrative leave from the CSB for three years prior to his termination and had been barred from performing any official business for the CSB during this time.¹² He was never one of the Presidentially-appointed and Senate-confirmed members of the Board. Therefore, he does not speak for the CSB, and his statements referred to in States' Supplemental Comments regarding CSB investigations, the dangers of HF alkylation, and the proposed Reconsideration rule, statements that occurred after his termination and in some cases years after his last official CSB duties occurred, do not represent recommendations from the Chemical Safety Board. The Horowitz op-ed is cited for his views on the significance of three refinery incidents (ExxonMobil Torrance, Husky, and PES), two of which occurred prior to the close of comments and the third (PES) that we discussed above. His statements are also similar to other comments made during the public comment period for the proposed rule¹³ and responded to by EPA and were therefore not impracticable to raise during the public comment period. EPA also does not view these comments discussing Mr. Horowitz's op-ed as centrally relevant to the 2019 final rule, as they provide no significant new information that would have affected EPA's final rule decision. The CSB's most recent (April 2019) correspondence to EPA on the issue of HF alkylation does not recommend that EPA undertake regulatory action to ban HF alkylation, nor do CSB's own comments submitted during the public comment period,¹⁴ so the issue of whether EPA should compel the elimination of HF alkylation through regulation is not centrally relevant to the 2019 RMP final rule.

States' Supplemental Comments and the petition also include discussion of two accidents that did not involve RMP-covered processes. These include the March 2017 incident at the Intercontinental Terminal Company (ITC) in Deer Park, Texas, and the January 2020 accident at Watson Grinding and Manufacturing in Houston, Texas (petition at 16-19). EPA does not believe the ITC incident involved a process subject to the RMP regulation, and neither the CSB factual update¹⁵ concerning the ITC incident referenced in States' Supplemental Comments or any other information submitted by the petitioner indicates otherwise. States' Supplemental Comments at 10. The accident at Watson Grinding and Manufacturing in Houston, Texas occurred at a facility that was never regulated under the RMP rule.¹⁶ Therefore, these accidents have no relevance to CAA section 112(r)(7), the 2019 RMP final rule, or the States' reconsideration claim.

B) Accident frequency and severity

¹² See, e.g., [Daniel Horowitz Wants Job Back at Chemical Safety Board](#), and [Former US Chemical Safety Board Chairman Won't be Prosecuted](#).

¹³ See, e.g., EPA-HQ-OEM-2015-0725-0985, EPA-HQ-OEM-2015-0725-1480, EPA-HQ-OEM-2015-0725-1939, etc. available at www.regulations.gov.

¹⁴ See EPA-HQ-OEM-2015-0725-1393, available at www.regulations.gov.

¹⁵ See the [Factual Update](#) available on the CSB website for the [ITC Tank Fire](#).

¹⁶ The Watson Grinding facility does not appear in the RMP database. See <https://www.epa.gov/frs/frs-query> (a Facility Selection search for facility names containing "Watson" with National Systems Search "Risk Management Plan" box checked yields no results). See also November 2017 RMP database, which is available in the rulemaking docket as item EPA-HQ-OEM-2015-0725-0989. The States' petition appears to assume that the facility was covered based on news reports. However, our analysis indicates that the facility was not subject to the RMP regulations at the time of its accident. It did not hold a threshold quantity of any regulated substance. The amount of propylene held at the facility did not exceed the 10,000-pound RMP threshold quantity, and even if it had exceeded the threshold, the process would not have been subject to the RMP rule because of the exclusion for flammable substances used as fuel at 40 CFR § 68.126. Therefore, in the absence of a filing by Watson Grinding stating they were subject to the RMP rule, and in the absence of a showing that they were covered but simply did not file, the States have not shown this incident was an RMP incident.

The petition contends that EPA focused solely on accident frequency in the 2019 RMP final rule, that the potential for high consequence events should be accounted for under the statutory scheme, and that “serious accidents highlighted in the States’ supplemental comments” undermine the rationale for the final rule. Petition at 19. The EPA disagrees that the Agency solely focused on accident frequency to justify the rescission and changes in the 2019 RMP final rule. Accidents required to be reported in RMP facility accident histories are, by definition, serious accidents. Section 68.42 of the RMP regulation requires the owner or operator to report all accidental releases from covered processes that resulted in deaths, injuries, or significant property damage on-site, or known offsite deaths, injuries, evacuations, sheltering in place, property damage, or environmental damage. In analyzing the national accident rate trend for purposes of the 2019 RMP final rule, EPA excluded accident reports that did not include one of these consequences. Additionally, EPA reviewed the trend in accident severity by comparing the average accident severity for RMP accidents occurring from 2004 to 2013, and RMP accidents occurring from 2014 to 2016, and found that by almost all consequence measures, accident severity had declined. *See* 84 FR at 69856.

In the 2018 proposed rule, EPA discussed the benefits of the accident prevention measures adopted in the 2017 RMP Amendments. *See, e.g.*, 83 FR at 24871 (questioning whether environmental benefits of new prevention provisions justified their added costs); *id.* at 24872 (questioning whether a sufficient number of sources would have their performance improved to justify the cost of STAA); *id.* at 24879 (identifying avoided catastrophic releases as a potential benefit that might result from a rescission of the prevention program provisions). In our benefits discussions throughout the rulemaking, we grouped catastrophic release reduction benefits in the non-monetized benefits, and in the 2018 proposed rule noted that we viewed it likely that costs of the 2017 RMP Amendments prevention provisions likely exceeded their benefits “unless significant non-monetized benefits are assumed.” *Id.* at 24873. While individual incidents highlighted in the supplemental comments that occurred after comments closed in 2018 of course could not have been discussed in the comment period, as the petition points out and as discussed above, various large incidents had occurred. *See* Petition at 19. The issue of the importance not only of frequency but also magnitude of prevented incidents was raised for comment in the 2018 proposed rule. The 2019 RMP final rule identifies “disproportionate” costs relative to accident prevention benefits as part of the rationale for finding some provisions of the 2017 RMP Amendments rule were not “reasonable regulations.” *See* 84 FR at 69849 and 69852. Evaluating proportionality rather than using a strictly monetized cost-benefit test allows for non-monetized costs and benefits to be considered in determining whether a rule is reasonable.

In sum, the petition is simply incorrect that EPA only looked at frequency of accidents and not severity in developing the 2019 RMP final rule. The issue of the importance of non-monetized benefits such as catastrophic releases prevented was raised for comment by the proposal. The types of events that petitioners claim were impracticable to raise during the comment period could have been identified and raised in comments. Additionally, the petition has not identified significant new information that makes the severity of the post-comment period accidents centrally relevant to the rulemaking.

C) Accidents occurring after EPA enforcement

States’ Supplemental Comments also discuss recent accidents at RMP facilities with previous noncompliance and claim that these examples “should have been a red-flag to EPA about RMP compliance” and highlight the need for the accident prevention provisions contained in the 2017 Amendments rule, particularly the third-party audit provisions. EPA disagrees that these examples are of central relevance to the Agency’s 2019 RMP final rule decision. Almost all of the noncompliance examples provided in the States’ Supplemental Comments were not examples of CAA section 112(r) noncompliance – in fact, only one related to noncompliance with the RMP regulation. EPA discusses each incident raised in this portion of States’ Supplemental Comments below.

- EPA's 2017 enforcement action at TPC Group in Port Neches, Texas, was not related to that facility's compliance with CAA Section 112(r) or the RMP regulation. The enforcement action at TPC was taken under the New Source Performance Standards of CAA Section 111 and 40 CFR part 60.¹⁷
- The ATI facility in Oregon and Arch Chemicals facility in New York were cited by state regulators for violations of the Resource Conservation and Recovery Act (RCRA).
- The Phillips 66 refinery in Illinois had been cited by EPA for excess benzene emissions under the CAA National Emission Standards for Hazardous Air Pollutants (NESHAP) program and also by the state regulator for RCRA violations.
- PES had been cited for RCRA and CAA non-112(r) violations and also for violations of Clean Water Act (CWA) effluent limitations.
- The U.S. Steel Clairton coke plant had been cited for CAA non-112(r), RCRA, and CWA violations.

None of these facilities' prior violations were related to CAA section 112(r). In the RMP Reconsideration rule, EPA did not claim that EPA enforcement actions under unrelated portions of the CAA or other statutes would ensure a facility's compliance with RMP requirements. In the examples EPA used in the proposed and final rules, EPA was clearly discussing examples of enforcement actions taken under CAA Section 112(r).¹⁸ Neither in our proposed rule nor in the 2019 RMP final rule did we assert that our enforcement-led / compliance-driven approach was based on any correlation between non-RMP violations and future accidental releases. Our approach was built on a correlation between a history of accidental releases and the likelihood of future releases, and how focused compliance oversight on a narrow set of accidental release-prone could obtain release reduction benefits. Therefore, these examples are irrelevant to each facility's compliance with CAA Section 112(r) or the RMP regulations.

The only facility highlighted in this portion of States' Supplemental Comments that had a recent prior violation under CAA Section 112(r) was the MarkWest Energy facility in Chartiers Township, Pennsylvania. In the five years prior to its December 2018 accident, it had been subject to non-CAA section 112(r) enforcement actions by EPA and state regulators, and also to a single enforcement action under CAA section 112(r). However, the petitioner's implication that this violation would have served as a "red flag" for EPA to order a third party audit under the 2017 Amendments rule is without merit. In developing the 2016 enforcement action, EPA conducted an inspection of the source. At that time, EPA did not detect violations that could cause significant health or environmental harm. The 2016 CAA section 112(r) enforcement action taken at MarkWest was a \$2,000 fine levied under an Expedited Penalty Action and Consent Agreement, which is a settlement action reserved by EPA for "easily correctible violations that do not cause significant health or environmental harm."¹⁹ Petitioners have provided no evidence that this or any other example of noncompliance in States' Supplemental Comments was indicative of "conditions at the stationary source that could lead to an accidental

¹⁷ See the [consent agreement](#) in the Matter of TPC Group LLC; CAA 06-2017-3361.

¹⁸ See, e.g., 83 FR at 24872-73: "EPA has also used an enforcement-led approach in some past CAA section 112(r) enforcement cases where facility owners or operators have entered into consent agreements involving implementation of safer alternatives as discussed in the proposed RMP Amendments rule," and 84 FR at 69877: "If a regulated facility fails to properly implement existing regulatory provisions, rather than imposing additional regulatory requirements, the appropriate response is for EPA to undertake regulatory enforcement, and EPA regularly does so under CAA section 112(r)."

¹⁹ EPA guidance indicates that the Expedited Settlement Agreement approach "generally is appropriate for easily correctible violations that do not cause significant health or environmental harm, and provides a discounted, non-negotiable settlement offer in lieu of a more formal, traditional administrative enforcement process." See EPA, 2014, [Revised Guidance on the Use of Expedited Settlement Agreements](#).

release of a regulated substance,” which would have been required under the 2017 Amendments rule for EPA to order a third-party audit at an RMP facility.²⁰ While not a third-party audit, the EPA inspection functioned as an independent external review of the MarkWest operation. We agree the petition has identified one instance where our enforcement response did not prevent a future accident. However, the petition does not explain why the third-party review would have been more effective at identifying safety program weaknesses than an EPA inspection at the source. Therefore, EPA does not believe the petitioners’ examples are of central relevance to EPA’s 2019 RMP final rule action, as the petitioners have not provided evidence that these examples of noncompliance relate to the rescinded provisions of the 2017 Amendments rule.

Petitioners also submitted States’ Second Supplemental Comments, which forward the CSB’s October 16, 2019 factual update for the CSB’s PES incident investigation. We note that the CSB factual update contains no mention of the RMP rule or any recommendations to EPA. The PES incident was also raised in the April 2019 letter to EPA from the CSB Interim Executive and is discussed further below.

EPA believes that the petitioners’ claim does not satisfy the requirements for reconsideration under CAA section 307(d)(7)(B) because petitioners have not provided new information that is centrally relevant to EPA’s final rule action that previous incidents did not reveal. Further, States fail to demonstrate how the PES incident would have been prevented by the rescinded provisions of the 2017 Amendments rule.

II. CSB Interim Executive’s Letter to EPA Concerning HF Alkylation

Petitioners’ claim that EPA failed to consider CSB’s recommendations concerning HF alkylation, referring to an April 2019 letter to the EPA Administrator from then CSB Interim Executive Kristin Kulinowski that urged EPA to address the risks of petroleum refinery HF alkylation units. As support for her suggestion, the CSB Interim Executive cited three accidents that occurred at petroleum refineries. Two of the accidents (ExxonMobil and Husky) did not occur in the refineries’ alkylation units and involved no releases of HF. The third accident (PES) involved a large release of HF from the refinery’s alkylation unit, but according to the CSB, no serious injuries occurred, and the minor injuries that did occur were not due to HF exposure.²¹

The EPA disagrees that the CSB Interim Executive’s letter satisfies the requirements of reconsideration under CAA section 307(d)(7)(B) for several reasons. First, the issue of potential releases from refinery HF alkylation units was raised in several public comments on the 2018 proposed rule and responded to by EPA in the preamble to the 2019 RMP final rule and RTC. For example, a tribal government argued that the 2017 Amendments rule STAA provisions should be retained, describing the potential harm threatened by a nearby refinery (i.e., the Husky Refinery) that uses HF. *See* 84 FR at 69876. EPA responded that the Amendments rule STAA provision would not have required any facility to implement safer technologies, and while some refineries still use HF, the STAA requirement would not have required them to eliminate its use.

Second, the CSB letter was not a recommendation for a regulation change or any particular action on the 2018 proposed rule or the 2019 RMP final rule. Rather, the CSB recommended that EPA update a report on HF issued in the early 1990s and that the Agency specifically consider whether there were viable alternatives to HF alkylation. States’ Supplemental Comments at 37. In making a recommendation for more study on EPA’s part,

²⁰ *See* 82 FR at 4699. The 2017 Amendments rule would have triggered a third-party audit under two criteria: (1) An accidental release meeting the criteria in § 68.42(a) from a covered process at a stationary source has occurred; or (2) An implementing agency requires a third-party audit due to conditions at the stationary source that could lead to an accidental release of a regulate substance, or when a previous third-party audit failed to meet the competency or independence criteria of § 68.80(c).

²¹ *See* [CSB Factual Update – Fire and Explosions at Philadelphia Energy Solutions Refinery Hydrofluoric Acid Alkylation Unit](#), Philadelphia, Pennsylvania, No. 2019-06-I-PA, October 16, 2019, p. 7, available at [Philadelphia Energy Solutions \(PES\) Refinery Fire and Explosions](#).

the letter made no mention of the CAA provision for the CSB to recommend regulations, CAA 112(r)(6)(c)(i). The relevance of the request to study the issues surrounding HF alkylation is attenuated rather than central to a rule affecting multiple sectors, especially prior to undertaking that study and evaluating its results.

Lastly, petitioners mischaracterize the CSB letter as recommending a regulation requiring STAA. Petition at 23. This becomes especially clear when one considers the action requested in the petition: “EPA should have considered the CSB’s recommendations prior to finalizing the [2019 RMP final rule].” *Id.* In fact, EPA did consider conducting the requested study, but rejected the CSB’s recommendation for new studies on October 8, 2019.²² However, had we decided to conduct the studies, those studies would be pointed at a specific industry rather than the multiple-sector STAA mandate of the 2017 RMP Amendments. To the extent that this recommends regulatory action by EPA, it is for another rule and not the one being reconsidered.

III. EPA Office of Inspector General Report No. 20-P-0062

Petitioners claim that the EPA Office of the Inspector General (OIG) report, *EPA Needs to Improve its Emergency Planning to Better Address Air Quality Concerns During Future Disasters* (Report No. 20-P-0062) “undermines EPA’s conclusion that there is no evidence that Hurricane Harvey caused releases of hazardous chemicals at RMP facilities” and is therefore of central relevance to the 2019 final RMP rule. As support for this claim, petitioners state that the OIG report found that most air toxic emission incidents during Hurricane Harvey occurred within a five-day period after the storm’s landfall when industrial facilities shut down and restarted operations in response to the storm and storage tank failures. Petitioners indicate that they raised this same issue in public comments on the proposed rule, but that EPA’s “rejection of the States’ comments was based solely on its limited evaluation of releases during past severe weather events like Hurricane Harvey, which the OIG report questions.”

The EPA disagrees with state petitioners’ claim that the OIG report satisfies the requirements for reconsideration under CAA section 307(d)(7)(B). The OIG report is not at all relevant to EPA’s final rule decision. The OIG report never even mentions the RMP regulation or CAA section 112(r), let alone EPA’s final rule decision. The subject of the OIG audit was air toxics pollution during and after Hurricane Harvey, not accidental releases from RMP facilities. Of the specific examples of air toxics releases provided in the report, none involved accidental releases of RMP-regulated substances from RMP-regulated processes. The report contains no recommendations relating to the RMP regulation or CAA section 112(r).

In addition to the OIG report not being relevant to the 2019 RMP final rule, EPA notes that the issue of air toxics pollution during and after Hurricane Harvey was raised in several public comments on the 2018 proposed rule, and the Agency provided extensive responses to those comments in the preamble to the final rule,²³ in the RTC,²⁴ and in a Technical Background Document.²⁵ In short, commenters submitted various reports and data that they claimed were evidence that Hurricane Harvey caused an increase in accidental releases from RMP-covered processes. Some of these commenters’ data sources were the among data sources reviewed by the OIG during its audit (e.g., Texas Commission on Environmental Quality emissions reports and EPA monitoring data). EPA reviewed commenters’ data and found no examples in those data of reportable RMP accidental releases from RMP-covered processes caused by extreme weather events. *See* 84 FR at 69868. As stated above, the OIG report also provides no such examples.

²² October 8, 2019 letter from Peter C. Wright to The Honorable Kristin M. Kulinowski, PhD.

²³ *See* 84 FR at 69868-69.

²⁴ *See* RTC, pp 57, 61, 254-256, 277-279. The RTC is available in the rulemaking docket at www.regulations.gov as item EPA-HQ-OEM-2015-0725-2086.

²⁵ *See* Technical Background Document for Final RMP Reconsideration Rule, Risk Management Programs Under the Clean Air Act, Section 112(r)(7), July 18, 2019, pp 41-50. The Technical Background Document is available in the rulemaking docket at www.regulations.gov as item EPA-HQ-OEM-2015-0725-2063.

We appreciate your comments and interest in this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Andrew Wheeler", with a long horizontal flourish extending to the right.

Andrew Wheeler

Exhibit B



STATE OF NEW YORK
OFFICE OF THE ATTORNEY GENERAL

LETITIA JAMES
ATTORNEY GENERAL

WRITER'S DIRECT DIAL: (518) 776-2382

DIVISION OF SOCIAL JUSTICE
ENVIRONMENTAL PROTECTION BUREAU

February 18, 2020

VIA ELECTRONIC AND U.S. MAIL

Andrew Wheeler, Administrator
U.S. Environmental Protection Agency
Mail Code 1101A
1200 Pennsylvania Ave., NW
Washington, D.C. 20460
wheeler.andrew@epa.gov

RE: Petition for Reconsideration of the Final Rule, "*Accidental Release Prevention Requirements: Risk Management Programs Under the Clean Air Act*," 84 Fed. Reg. 69,834 (Dec. 19, 2019), EPA-HQ-OEM-2015-0725

Dear Administrator Wheeler,

Enclosed is a petition for reconsideration under section 307(d)(7)(B) of the Clean Air Act, 42 U.S.C. § 7607(d)(7)(B). The parties submitting this petition are the State of New York, District of Columbia, State of Delaware, State of Illinois, State of Maine, State of Maryland, Commonwealth of Massachusetts, People of the State of Michigan, State of Minnesota, State of New Jersey, State of New Mexico, State of Oregon, Commonwealth of Pennsylvania, State of Rhode Island, State of Vermont, State of Washington, State of Wisconsin, and City of Philadelphia (collectively, the "States").

The States respectfully request that the U.S. Environmental Protection Agency ("EPA") reconsider certain aspects of the final rule, *Accidental Release Prevention Requirements: Risk Management Programs Under the Clean Air Act*, 84 Fed. Reg. 69,834 (Dec. 19, 2019) ("Rollback Rule"). The Rollback Rule repeals critical aspects of EPA's final rule, *Accidental Release Prevention Requirements: Risk Management Programs Under the Clean Air Act*, 82 Fed. Reg. 4,594 (Jan. 13, 2017) ("Chemical Disaster Rule"), which EPA concluded improved safety at facilities that use and distribute hazardous chemicals.

Reconsideration is warranted here because the States raise several objections that arose after the end of the comment period and that concern issues of central relevance to the Rollback Rule's adoption. 42 U.S.C. § 7607(d)(7)(B).

First, the States object to EPA ignoring the serious chemical accidents that continue to occur, including the devastating explosion at the Philadelphia Energy Solutions Refinery in South Philadelphia, the huge explosion and fire at the TPC Group chemical plant in Port Neches, and the fatal explosion at the Watson Grinding and Manufacturing in Houston. These chemical accidents undercut EPA's decision in the Rollback Rule to rescind the additional safeguards of the Chemical Disaster Rule.

Second, the States object to EPA ignoring the recommendations of the U.S. Chemical Safety and Hazard Investigation Board ("CSB") in an April 2019 letter concerning hydrogen fluoride, a dangerous chemical used at many U.S. refineries. The CSB's recommendation to evaluate inherently safer alternatives to hydrogen fluoride undermines EPA's decision in the Rollback Rule to repeal the safer technologies and alternatives analysis provision of the Chemical Disaster Rule.

Third, the States object to EPA ignoring the report from its Office of Inspector General, *EPA Needs to Improve its Emergency Planning to Better Address Air Quality Concerns During Future Disasters*, Report No. 20-P-0062 (Dec. 16, 2019). The report explains that extreme weather events, which occur with increasing frequency and severity due to climate change, result in releases of hazardous chemicals at regulated facilities. The report contradicts EPA's conclusion that there is no evidence that Hurricane Harvey caused releases of hazardous chemicals at regulated facilities.

The Rollback Rule's repeal of key provisions of the Chemical Disaster Rule threatens the health and safety of workers and fence line communities. EPA should therefore stay the Rollback Rule for three months while it begins the reconsideration process. *See* 42 U.S.C. § 7607(d)(7)(B). Although the Rollback Rule is already in effect, *see* 84 Fed. Reg. at 69,834, staying the effectiveness of the Rollback Rule together with granting reconsideration would signal to the regulated community and general public that the States and others have raised important issues that the agency is seriously considering and that could result in revisions to the Rollback Rule.

Please feel free to contact us with any questions.

Sincerely,

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BEFORE ANDREW WHEELER, ADMINISTRATOR
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

)
)
 IN RE PETITION FOR RECONSIDERATION)
 AND STAY OF ACCIDENTAL RELEASE)
 PREVENTION REQUIREMENTS:)
 RISK MANAGEMENT PROGRAMS)
 UNDER THE CLEAN AIR ACT)
 84 FED. REG. 69,834 (Dec. 19, 2019))
)
)

Submitted by:

State of New York, District of Columbia, State of Delaware, State of Illinois, State of Maine, State of Maryland, Commonwealth of Massachusetts, People of the State of Michigan, State of Minnesota, State of New Jersey, State of New Mexico, State of Oregon, Commonwealth of Pennsylvania, State of Rhode Island, State of Vermont, State of Washington, State of Wisconsin, and City of Philadelphia

On December 19, 2019, the U.S. Environmental Protection Agency (“EPA”) published the final rule, *Accidental Release Prevention Requirements: Risk Management Programs Under the Clean Air Act*, 84 Fed. Reg. 69,834 (Dec. 19, 2019) (“Rollback Rule”). The Rollback Rule repeals critical aspects of EPA’s final action entitled *Accidental Release Prevention Requirements: Risk Management Programs Under the Clean Air Act*, 82 Fed. Reg. 4,594 (Jan. 13, 2017) (“Chemical Disaster Rule”).

EPA issued the Chemical Disaster Rule to update its original 1996 regulations implementing section 112(r) of the Clean Air Act, 42 U.S.C. § 7412(r). EPA found that the revisions to those regulations in the Chemical Disaster Rule were warranted to improve safety at facilities that use and distribute hazardous chemicals. 82 Fed. Reg. at 4,594. EPA concluded that the Chemical Disaster Rule would better protect human health and the environment from chemical hazards through advancement of process safety management based on lessons learned over the past two decades of implementing the regulations. *Id.* at 4,595.

The major provisions of the Chemical Disaster Rule repealed include those requiring safer technology and alternatives analysis, third-party audits, and more robust incident investigation. *See* 84 Fed. Reg. at 69,836. In an about-face, EPA now contends that the Chemical Disaster Rule is not reasonable or practicable. *Id.* Several petitioners have challenged the Rollback Rule in the U.S. Court of Appeals for the D.C. Circuit, including the undersigned parties. *See State of New York, et al. v. Andrew Wheeler, et al.*, Case No. 20-1022 (D.C. Cir.); *State of Delaware v. EPA, et al.*, Case No. 20-1034 (D.C. Cir. 2020); *United Steel, Paper and Forest v. EPA, et al.*, Case No. 20-1005 (D.C. Cir. 2020); *Air Alliance Houston, et al v. EPA, et al.*, Case No. 19-1260 (D.C. Cir.).

Pursuant to 42 U.S.C. § 7607(d)(7)(B), and for the reasons set forth below, the State of New York, District of Columbia, State of Delaware, State of Illinois, State of Maine, State of Maryland, Commonwealth of Massachusetts, People of the State of Michigan, State of Minnesota, State of New Jersey, State of New Mexico, State of Oregon, Commonwealth of Pennsylvania, State of Rhode Island, State of Vermont, State of Washington, State of Wisconsin, and City of Philadelphia (collectively the “States”) hereby petition EPA to reconsider certain aspects of the Rollback Rule.

Reconsideration is warranted here because the States raise several objections that arose after the end of the comment period and that concern issues of central relevance to the Rollback Rule’s adoption. *Id.*

First, EPA has chosen to ignore evidence of recent, serious accidents that undermine the agency’s position in the Rollback Rule that chemical accidents are declining and therefore the additional safeguards in the Chemical Disaster Rule concerning accident prevention are unnecessary. Many of these accidents, which occurred after the public comment period closed in August 2018, including the devastating explosion at a petroleum refinery in South Philadelphia, were discussed in supplemental comments submitted by the States to EPA in August 2019. In the final Rollback Rule issued several months later, EPA did not address or respond to the States’ supplemental comments, other than to note it had entered them into the docket as late comments.

In addition to the South Philadelphia explosion, other devastating accidents have continued to occur, further undercutting EPA’s decision in the Rollback Rule to rescind additional safeguards in the Chemical Disaster Rule. In late November 2019, an accident at the TPC Group chemical facility in Texas injured at least eight people, released an undisclosed

amount of butadiene (a human carcinogen), and required the evacuation of over 60,000 people. And in January 2020, at the Watson Grinding and Manufacturing facility also in Texas, an explosion involving propylene killed two people, injured 18 others, and hurled debris damaging at least 200 homes. As discussed in this petition, these accidents and those discussed in the States' supplemental comments are of central relevance to the accident prevention provisions EPA chose to repeal in the Rollback Rule.

Second, EPA failed to address the recommendations of the U.S. Chemical Safety and Hazard Investigation Board ("CSB") in an April 2019 letter concerning hydrogen fluoride, a dangerous chemical used at many U.S. refineries. The letter, which the States included with and discussed in our supplemental comments, called for EPA to update its 1993 study on hydrogen fluoride to determine whether refineries' existing risk management plans are adequate and to evaluate whether there are viable inherently safer technologies that could be used instead. Just two months after the letter, a leak of hydrogen fluoride caused the explosion at the South Philadelphia refinery. The CSB's recommendations to evaluate inherently safer alternatives to hydrogen fluoride, which were echoed in a letter to EPA around the same time by a group of U.S. Senators, are centrally relevant to EPA's decision to rescind the safer technologies and alternatives analysis provision of the Chemical Disaster Rule. The safer technologies provision, specifically for hydrogen fluoride, has been highlighted in multiple rulemaking comments submitted by the United Steelworkers.

Third, EPA must grant reconsideration to consider the attached report from its Office of Inspector General entitled *EPA Needs to Improve its Emergency Planning to Better Address Air Quality Concerns During Future Disasters*, Report No. 20-P-0062 (Dec. 16, 2019). The report, which faults EPA for its inadequate response to monitoring toxic air pollution in the Houston

area in the days after Hurricane Harvey in 2017, is centrally relevant to EPA's position that there is no evidence that extreme weather events, which are becoming more frequent and severe due to climate change, have resulted in releases of hazardous chemicals at regulated facilities.

Because the grounds for these objections arose after the close of the public comment period and are of central relevance to the Final Rule, EPA must reopen public comment and reconsider the Final Rule. 42 U.S.C. § 7607(d)(7)(B). EPA must impart all the procedural rights that “would have been afforded had the information been available at the time the rule was proposed.” *Id.*

As discussed below, the Rollback Rule's repeal of key provisions of the Chemical Disaster Rule threatens the health and safety of workers and fence line communities. EPA should therefore stay the Rollback Rule for three months while it begins the reconsideration process. *See id.* Although the Rollback Rule is already in effect, *see* 84 Fed. Reg. at 69,834, staying the effectiveness of the Rollback Rule together with granting reconsideration would signal to the regulated community and general public that the States and others have raised important issues that the agency is seriously considering and that could result in revisions to the Rollback Rule.

PROCEDURAL HISTORY

A. THE CHEMICAL DISASTER RULE

“The Chemical Disaster Rule is the most recent outgrowth of Congress's effort in the 1990 Amendments [to the Clean Air Act] to ensure adequate protections against highly dangerous accidental releases of chemicals.” *Air All. Houston v. EPA*, 906 F.3d 1049, 1062 (D.C. Cir. 2018). The 1990 Amendments to the Clean Air Act created a new Risk Management Program (“RMP”) and required EPA “to establish reasonable and appropriate regulations to

prevent and detect accidental releases to the maximum extent practicable.” *Id.* (quoting H.R. REP. No. 101-490, at 157 (May 17, 1990); citing S. REP. No. 101-228, at 237 (Dec. 20, 1989)).

In August 2013, following several catastrophic chemical facility incidents, President Obama directed EPA and other agencies to “improve chemical facility safety and security in coordination with owners and operators,” and mandated that EPA strengthen its accidental release prevention regulations. *Id.* (quoting Exec. Order No. 13,650, §§ 1-7, *Improving Chemical Facility Safety and Security*, 78 Fed. Reg. 48,029 (Aug. 1, 2013)).

In July 2014, EPA published a request for information seeking comment on potential revisions to its accidental release regulations and related programs. *Accidental Release Prevention Requirements: Risk Management Programs Under the Clean Air Act, Section 112(r)(7)*, 79 Fed. Reg. 44,604 (July 31, 2014). EPA stated that major chemical incidents “highlight the importance of reviewing and evaluating current practices and regulatory requirements, and applying lessons learned from other incident investigations to advance process safety where needed.” *Id.* at 44,606. EPA sought “public input on process safety and risk management issues relevant to the [RMP] regulation to inform potential actions that may further reduce the number of chemical accidents within the United States.” *Id.* EPA received over 100,000 responses, including a 50-page letter from the CSB recommending dozens of regulatory changes based on research and recent accident investigations. *Air All. Houston*, 906 F.3d at 1055.

In March 2016, EPA issued a notice of proposed rulemaking proposing amendments to the accidental release prevention regulations and related programs. *Accidental Release Prevention Requirements: Risk Management Programs Under the Clean Air Act* (“Proposed Chemical Disaster Rule”), 81 Fed. Reg. 13,638 (Mar. 14, 2016). EPA stated that major chemical

incidents “highlight the importance of reviewing and evaluating current practices and regulatory requirements, and applying lessons learned from other incident investigations to advance process safety where needed.” *Id.* at 13,646; *see also Air All. Houston*, 906 F.3d at 1055 (describing Proposed Chemical Disaster Rule). According to the CSB, the Proposed Chemical Disaster Rule reflected a number of improvements to help advance chemical safety and prevention of accidental releases.¹

On January 13, 2017, EPA promulgated the Chemical Disaster Rule to “improve safety at facilities that use and distribute hazardous chemicals.” 82 Fed. Reg. at 4,594. The Chemical Disaster Rule revised dozens of requirements in three major areas: (1) accident prevention, including expanded post-accident investigations, more rigorous safety audits, safety training, and safer technology requirements; (2) emergency response, including more frequent coordination with local first responders and emergency response committees, and more intensive incident-response exercises; and (3) public information disclosure, including public disclosure of safety information and public-meeting requirements. *Air All. Houston*, 906 F.3d at 1055-56.

EPA determined that March 14, 2017, was an appropriate effective date for the rule: it was practicable for regulated entities to comply with some provisions immediately, while they would need additional time to prepare to comply with others. 82 Fed. Reg. at 4,675-76. For the latter category, compliance was phased in from March 14, 2018 to March 14, 2022. *Id.* at 4,696. In setting dates for the different requirements, EPA explained that it had considered the time needed for facility operators to understand the new rules, train personnel, arrange responses, research technologies, and provide for public notification. *Id.* at 4,676.

¹ Letter from CSB to EPA Docket Center (Mar. 14, 2016); posted May 10, 2016 at: <https://www.regulations.gov/document?D=EPA-HQ-OEM-2015-0725-0428>.

B. EPA'S UNLAWFUL DELAY OF THE CHEMICAL DISASTER RULE AND PROPOSED REPEAL OF THE CHEMICAL DISASTER RULE

After initially delaying the Chemical Disaster Rule's March 14, 2017 effective date following the change in Presidential administrations, on June 14, 2017, EPA promulgated the *Accidental Release Prevention Requirements: Risk Management Programs Under the Clean Air Act; Further Delay of Effective Date* ("Delay Rule"), 82 Fed. Reg. 27,133 (June 14, 2017). The Delay Rule further delayed the effective date of the Chemical Disaster Rule to February 19, 2019 for the purposes of EPA's reconsideration of the Delay Rule. *Id.* at 27,135.

On May 30, 2018, EPA proposed repealing critical aspects of the Chemical Disaster Rule, including almost all the accident prevention requirements. *Accidental Release Prevention Requirements: Risk Management Programs Under the Clean Air Act* ("Proposed Rollback Rule"), 83 Fed. Reg. 24,850, 25,852 (May 30, 2018). EPA established a deadline of August 23, 2018 to submit comments.

As to the accident prevention requirements, EPA proposed to weaken post-accident investigations, eliminate all requirements for third-party compliance audits, decrease safety training, and eliminate safer technology and alternatives analysis. *Id.* at 24,857-58. Regarding emergency response requirements, EPA proposed to limit the information facilities must provide annually to emergency responders and remove the minimum frequency requirement for field exercises or, alternatively, rescind the field and tabletop exercise requirements entirely. *Id.* at 24,853. As to the public information disclosure requirements, the agency proposed to curtail the scope of the information that facilities are required to share with the public about chemical hazards. *Id.*

On August 17, 2018, the D.C. Circuit Court of Appeals vacated the Delay Rule. *Air All. Houston*, 906 F.3d at 1066. The Court concluded that EPA lacked authority under the applicable

sections of the Clean Air Act, 42 U.S.C. §§ 7607(d)(7)(B) and 7412(r)(7), to delay the effective date of the Chemical Disaster Rule for 20 months for the purpose of reconsideration, EPA could not avoid that statute's express limitations by invoking general rulemaking authority under a different statutory provision, and EPA's promulgation of the Delay Rule was arbitrary and capricious. *Air All. Houston*, 906 F.3d at 1053.

On August 21, 2018, the States requested an extension of the comment period by 60 days to enable interested parties to have sufficient time to fully consider the legal and practical impacts of the Court's decision on the Proposed Rollback Rule. EPA refused to grant the States' request for an extension of the comment period. On August 23, 2018, the States timely submitted comments to the Proposed Rollback Rule ("States' Original Comments").²

The overwhelming evidence of the societal costs from chemical accidents and the critical need for the updated safeguards set forth in the Chemical Disaster Rule continued to grow after the close of the comment period. On August 20, 2019, the States submitted supplemental comments to the Final Rule to highlight numerous chemical accidents that occurred and information made public after the close of the comment period ("States' Supp. Comments").³

On October 28, 2019, the States submitted the CSB's preliminary investigation results, dated October 16, 2019, regarding the June 2019 explosions and fire at the Philadelphia Energy Solutions Refinery (PES) ("States' Second Supp. Comments").⁴ The CSB findings make clear

² Letter from Attorneys General of New York, Illinois, Iowa, Maine, Maryland, Massachusetts, New Jersey, New Mexico, Oregon, Rhode Island, Vermont, and Washington to EPA Docket Center (Aug. 23, 2018); posted Sept. 9, 2018 at: <https://www.regulations.gov/document?D=EPA-HQ-OEM-2015-0725-1925>. The States' Original Comments are hereby incorporated by reference.

³ Letter from Attorneys General of New York, Pennsylvania, Illinois, Iowa, Maine, Maryland, Massachusetts, Michigan, New Jersey, New Mexico, Oregon, Rhode Island, Vermont, and Washington to EPA Docket Center (Aug. 20, 2019); posted Aug. 21, 2019 at: <https://www.regulations.gov/document?D=EPA-HQ-OEM-2015-0725-1998>. The States' Supp. Comments are hereby incorporated by reference.

⁴ Letter from Attorneys General of New York, Pennsylvania, Illinois, Iowa, Maine, Maryland, Massachusetts, Michigan, New Jersey, New Mexico, Oregon, Rhode Island, Vermont, and Washington to EPA Docket Center (Oct.

that PES and the City of Philadelphia avoided catastrophic loss of life by the narrowest of margins.⁵ States' Second Supp. Comments at 1.

EPA included the States' Supplemental Comments and Second Supplemental Comments in the rulemaking docket. *See* 42 U.S.C. § 7607(d)(4)(B)(i) ("All documents which become available after the proposed rule has been published and which the Administrator determines are of central relevance to the rulemaking shall be placed in the docket as soon as possible after their availability."). EPA stated that it included these comments "as 'late comments' outside the comment period" and that their inclusion in the docket did not mean that EPA had determined that the comments were of central relevance to the rulemaking.⁶

On December 19, 2019, EPA promulgated the Rollback Rule. The Rollback Rule guts the Chemical Disaster Rule by eliminating requirements intended to prevent accidents and weakening requirements regarding a facility's response during and following accidents. Specifically, the Rollback Rule rescinds "amendments made to the [RMP] in 2017 relating to safer technology and alternative analyses, third-party audits, incident investigations, information availability, and several other minor provisions." 84 Fed. Reg. at 69,836. The Rollback Rule also modifies "regulations relating to local emergency coordination, emergency response exercises, and public meetings after an accident, changing the compliance dates for some of

28, 2019); posted Nov. 29, 2019 at: <https://www.regulations.gov/document?D=EPA-HQ-OEM-2015-0725-2001>. The States' Second Supp. Comments are hereby incorporated by reference.

⁵ *See also* Susan Phillips, *Philadelphia Proposes Banning Hydrofluoric Acid, Toxic Chemical in Refinery Explosion*, WHYY, Feb. 11, 2020, <https://whyy.org/articles/philadelphia-proposes-banning-hydrofluoric-acid-toxic-chemical-in-refinery-explosion/> ("Philadelphia Managing Director Brian Abernathy said the city narrowly escaped a disaster.").

⁶ Letter from Jim Belke, Office of Emergency Management, U.S. EPA to EPA Docket Center (Nov. 19, 2019); posted Dec. 19, 2019 at: <https://www.regulations.gov/document?D=EPA-HQ-OEM-2015-0725-2085>.

these provisions and modifying risk management plan and air permit requirements relating to rescinded or modified provisions.” *Id.*

EPA justified the Rollback Rule by asserting that “accidents and accident consequences have declined substantially and are now at a historically low rate.” *Id.* at 69,866. According to EPA, this means that the pre-2017 RMP prevention program rules have “been very effective at preventing accidents,” rendering the accident prevention requirements unnecessary. *Id.* EPA then concluded that an “enforcement-led” or “compliance-driven” approach that enforces pre-2017 RMP prevention program rules would be more “reasonable and practicable” than the Chemical Disaster Rule in preventing accidents. *Id.* at 69,843.

Since submission of the States’ supplemental comments, additional severe chemical accidents occurred. For example, on November 27, 2019, a huge explosion and fire occurred at the TPC Group chemical plant in Port Neches, Texas, injuring at least eight people.⁷ In addition, on January 24, 2020, a fatal early morning explosion occurred at the Watson Grinding and Manufacturing facility in Houston, Texas, killing two people and injuring 18 other people.⁸

STANDARD FOR RECONSIDERATION

EPA must convene a reconsideration proceeding if a person raising an objection shows: (1) it was “impracticable” to raise the objection during the public comment period, or grounds for the objection arose after the public comment period; and (2) the objection “is of central relevance to the outcome of the rule.” 42 U.S.C. § 7607(d)(7)(B).

⁷ Margaret Toal, Nicholas Bogel-Burroughs, & Manny Fernandez, *Thousands Evacuated in Texas After Explosion at Port Neches Chemical Plant*, The New York Times, Nov. 27, 2019, <https://www.nytimes.com/2019/11/27/us/texas-explosion-port-neches-tpc.html>.

⁸ Kelsey Brugger, *Texas Explosion Renews Concern Over Chemical Safety Rollback*, E&E News, Jan. 24, 2020, <https://www.eenews.net/greenwire/2020/01/24/stories/1062167737>; Marc Nathanson & Ella Torres, *2 Dead in Houston Explosion That Destroyed Building, Caused ‘Significant Damages’ to Homes*, ABC News, Jan. 25, 2020, <https://abcnews.go.com/US/building-explosion-felt-northwest-houston/story?id=68500936>.

An objection is “of central relevance” if it provides “substantial support for the argument that the regulation should be revised.” *Coal. for Responsible Regulation, Inc. v. EPA*, 684 F.3d 102, 125 (D.C. Cir. 2012). The petitioner must show “the errors identified were so serious and related to matters of such central relevance to the rule that there is a substantial likelihood that the rule would have been significantly changed if such errors had not been made.” *Union Oil Co. of Calif. v. EPA*, 821 F.2d 678, 683 (D.C. Cir. 1987).

“If an objection fits within this exception, the consequences are weighty: EPA must grant reconsideration and conduct a new, full-dress, notice-and-comment rulemaking.” *Alon Ref. Krotz Springs, Inc. v. EPA*, 936 F.3d 628, 647 (D.C. Cir. 2019).

ARGUMENT

I. EPA IGNORED EVIDENCE OF RECENT ACCIDENTS THAT UNDERMINES THE AGENCY’S POSITION THAT THE CHEMICAL DISASTER RULE’S ACCIDENT PREVENTION REQUIREMENTS ARE UNNECESSARY.

In August 2019, a year after EPA had proposed (but not yet finalized) the Rollback Rule, the States submitted supplemental comments to EPA to bring to the agency’s attention several important developments that had occurred over the past year. The States identified numerous chemical accidents occurring after the public comment period at RMP facilities across the country, including a refinery explosion in South Philadelphia and several other severe incidents. These chemical accidents caused harm to workers, the surrounding communities, and the environment, and property damage, among other impacts. As discussed in the supplemental comments, the facts concerning these accidents undercut EPA’s positions in the proposed rule that falling accident numbers render the Chemical Disaster Rule’s accident prevention provisions unnecessary and that EPA can instead rely on enforcement actions to provide adequate protections. Despite that the States’ comments were submitted three months before EPA

finalized the Rollback Rule and concerned issues of central relevance to the rulemaking, the agency failed to consider the comments in the final Rule. It must remedy that error now by granting reconsideration. 42 U.S.C. § 7607(d)(7)(B).

A. The States' Supplemental Comments Demonstrated that EPA's Focus on the Number of Accidents at RMP Facilities was Misguided.

One of EPA's central positions in the Rollback Rule is that recent statistics show that the Chemical Disaster Rule's added prevention safeguards (*e.g.*, safer technology and alternatives analysis, third-party audits) are not needed because the 1996 regulations are adequate to prevent and mitigate accidents. *See* 84 Fed. Reg. at 69,843. The States' supplemental comments took issue with that position by providing information on dozens of accidents that had occurred after the close of the comment period and by highlighting several severe accidents that evidence the need for the Chemical Disaster Rule's enhanced protections.

For example, the supplemental comments discussed the PES explosion in South Philadelphia in June 2019. The PES explosion occurred near an area in the facility where the company stored and used hydrogen fluoride as part of its alkylation catalyst process.⁹ States' Supp. Comments at 5. In a mere two minutes, over two tons of hydrofluoric acid—a chemical that is immediately dangerous to life or health at 30 parts per million—were released from a broken pipe, forming a ground-hugging vapor cloud that ultimately triggered the explosions at the refinery. *Id.* at 1. The resulting fireball was massive and so hot that it could be seen from space in satellite infrared images. *Id.* at 4. The huge plume of smoke and threats to health and safety from the fire caused the closing of portions of Interstate 76 and the nearby Platt Bridge, the rerouting of city buses, and the issuance of a shelter-in-place order for surrounding

⁹ As discussed in Point II, *infra*, the States' Supplemental Comments separately discussed the CSB's April 2019 letter to EPA recommending that the agency take action to address the threats from hydrogen fluoride to avoid the type of accident at PES that was nearly catastrophic.

neighborhoods. *Id.* The explosion injured five PES workers. *Id.* at 5. The impacts could have been much worse: the explosion sent most of the hydrofluoric acid high into the atmosphere and quick action by a worker prevented even more of the chemical from escaping. In addition, as the CSB found, the explosion propelled a large piece of metal weighing about 38,000 pounds with such force that it landed on the other side of the Schuylkill River, fortunately not landing on any home or business. States' Second Supp. Comments, Attachment at 3. Multiple fire departments worked together with the refinery crew to contain and extinguish the fire. *Id.* PES, which subsequently filed for bankruptcy, estimated property damage from the fire at \$1 billion and business losses at \$250 million. *Id.*

The States' Supplemental Comments highlighted several other serious accidents—including the MarkWest Energy Facility (PA) accident in December 2018 where a worker was killed and three others were injured and the Phillips 66 Refinery (IL) explosion and fire in February 2019 that shook residents' homes and required one employee to be hospitalized—that likewise demonstrate the need for the accident prevention requirements added by the Chemical Disaster Rule. *See* States' Supp. Comments at 7-9.¹⁰

¹⁰ In addition, we explained that reports on accident investigations issued by the CSB post-August 2018 further demonstrate that these accident prevention requirements could have avoided or mitigated harms from accidents. States' Supp. Comments at 10-13 (discussing CSB reports issued concerning the DuPont La Porte (TX), Enterprise Pascagoula (MS), and Husky Energy (WI) accidents). For example, the CSB determined that the toxic chemical release at DuPont's La Porte, Texas facility "resulted from a long chain of process safety management system implementation failures" that started with a flawed engineering design, followed by inadequate safeguards resulting from inadequate hazard analyses and continuing through the company's "ineffective emergency response" that "contributed to the extent and duration of the chemical release, placed other workers in harm's way, and did not effectively evaluate whether the chemical release posed a safety threat to the public." *Id.* at 11. The CSB concluded that "[w]eaknesses in the DuPont La Porte safety management systems resulted from a culture at the facility that did not effectively support strong process safety performance." *Id.* The CSB findings demonstrate, among other things, the critical importance of third-party audits, the need for speedy incident investigations and root cause analyses, and the need for requirements to timely identify and cure deficiencies, *id.* at 17, all areas eliminated or weakened by the Rollback Rule.

About a week after Administrator Wheeler signed the final Rollback Rule, another severe accident occurred. On November 27, 2019 a chemical accident (shown in the photo below) took place at the TPC Group chemical plant in Port Neches, Texas.



Source: Erwin Seba/Reuters. Available at <https://abcnews.go.com/US/mandatory-evacuation-fires-texas-refinery-explosion/story?id=67371777>.

The TPC Group accident injured at least eight people.¹¹ The blast occurred in an area of the chemical plant that processes a colorless gas known as butadiene, which TPC Group used in the production of synthetic rubber and plastic.¹² The strength of the blast shattered windows and damaged doors of nearby homes, terrifying sleeping residents.¹³ After dark smoke billowed for hours, another large explosion ripped through the plant in the early afternoon, sending up a huge

¹¹ Margaret Toal, Nicholas Bogel-Burroughs, & Manny Fernandez, *Thousands Evacuated in Texas After Explosion at Port Neches Chemical Plant*, The New York Times, Nov. 27, 2019, <https://www.nytimes.com/2019/11/27/us/texas-explosion-port-neches-tpc.html>.

¹² *Id.*; see also Gary McWilliams et al., *Second Evacuation Order Lifted in Texas City Hit by Explosion, Chemical Fire*, Reuters, Dec. 5, 2019, <https://www.cbsnews.com/news/explosion-texas-plant-port-neches-chemical-plant-texas-tpc-fire-lanxess-charleston-south-carolina-emergency-today/>.

¹³ Merrit Kennedy, *Massive Explosion Rips Through Texas Chemical Plant*, National Public Radio, Nov. 27, 2019, <https://www.npr.org/2019/11/27/783263942/massive-explosion-rips-through-texas-chemical-plant>.

ball of fire.¹⁴ Following the explosions, air monitors detected high levels of the cancer-causing petrochemicals butane and butadiene.¹⁵ Local officials ordered the evacuation of over 60,000 people near the chemical plant, including all those living in Port Neches, along with the cities of Groves, Nederland, and the northern part of Port Arthur, as well as the unincorporated communities of Central Gardens and Beauxart Gardens.¹⁶ According to the Texas Commission on Environmental Quality, the explosion “caused the release of chemicals called volatile organic compounds” which in high concentrations, can “cause eye, nose, and throat irritation, shortness of breath, headaches, and nausea.”¹⁷ The CSB is conducting an investigation into this chemical accident.¹⁸

A few weeks later, on January 24, 2020, another explosion occurred (as shown in the photo below), this time with fatalities, at the Watson Grinding and Manufacturing facility in Houston, Texas.¹⁹

¹⁴ *Id.*

¹⁵ Gary McWilliams *et al.*, *Second Evacuation Order Lifted in Texas City Hit by Explosion, Chemical Fire*, Reuters, Dec. 5, 2019, <https://www.cbsnews.com/news/explosion-texas-plant-port-neches-chemical-plant-texas-tcp-fire-lanxess-charleston-south-carolina-emergency-today/>.

¹⁶ Margaret Toal, Nicholas Bogel-Burroughs, & Manny Fernandez, *Thousands Evacuated in Texas After Explosion at Port Neches Chemical Plant*, The New York Times, Nov. 27, 2019, <https://www.nytimes.com/2019/11/27/us/texas-explosion-port-neches-tpc.html>; *see also* *60,000 People Forced to Evacuate After Explosions at Texas Chemical Plant*, CBS News, Nov. 27, 2019, <https://www.cbsnews.com/news/explosion-texas-plant-port-neches-chemical-plant-texas-tcp-fire-lanxess-charleston-south-carolina-emergency-today/>.

¹⁷ Merrit Kennedy, *Massive Explosion Rips Through Texas Chemical Plant*, National Public Radio, Nov. 27, 2019, <https://www.npr.org/2019/11/27/783263942/massive-explosion-rips-through-texas-chemical-plant>.

¹⁸ U.S. Chemical Safety and Hazard Investigation Board, *TPC Group Explosion and Fire*, <https://www.csb.gov/tpc-group-explosion-and-fire/>.

¹⁹ Kelsey Brugger, *Texas Explosion Renews Concern Over Chemical Safety Rollback*, E&E News, Jan. 24, 2020, <https://www.eenews.net/greenwire/2020/01/24/stories/1062167737>.



Source: Metro Video. Available at <https://www.houstonchronicle.com/news/houston-texas/houston/article/What-we-know-about-company-west-explosion-gessner-15000960.php#photo-18927725>.

The explosion killed two people and injured 18 other people.²⁰ After the explosion, hazmat crews secured a 2,000-gallon tank of highly flammable propylene gas that was leaking at the site.²¹ The Houston Police Chief asked residents who live nearby to search their homes and neighborhoods for human body parts.²² The explosion also caused extensive damage to over 200 homes, many of which may be deemed uninhabitable by city inspectors.²³ Following the

²⁰ *Id.*; Marc Nathanson & Ella Torres, *2 Dead in Houston Explosion That Destroyed Building, Caused 'Significant Damages' to Homes*, ABC News, Jan. 25, 2020, <https://abcnews.go.com/US/building-explosion-felt-northwest-houston/story?id=68500936>.

²¹ Sergio Chapa, *West Houston Explosion: What is Propylene—And How Dangerous Is It?*, Houston Chronicle, Jan. 24, 2020, <https://www.houstonchronicle.com/news/houston-texas/article/West-Houston-explosion-chemical-hazmat-propane-15001530.php>.

²² Associated Press, *Residents Asked to Search for Debris, Body Parts After Houston Explosion*, KWTX, Jan. 24, 2020, available at <https://www.kwtx.com/content/news/Building-explosion-rattles-windows-walls-across-Houston-567258991.html>.

²³ Nicole Hensley, *Homes Near Watson Grinding Explosion Continue to Crumble*, Houston Chronicle, Jan. 26, 2020, <https://www.houstonchronicle.com/news/houston-texas/houston/article/Rain-complicates-recovery-for-neighbors-near-15005654.php#photo-18938366>.

explosion, at least 48 people sought refuge in temporary shelters.²⁴ On January 24, 2020, the CSB deployed investigators to the Watson Grinding and Manufacturing facility.²⁵ On February 6, 2020, Watson Grinding and Manufacturing filed for bankruptcy and fired 80 employees.²⁶

Because these accidents occurred after the close of the public comment period, it was not possible for the States to raise them in the August 2018 rulemaking comments. But the evidence of these recent accidents is of central relevance to the rulemaking. In finalizing the Rollback Rule, EPA focused on the number of accidents that had been reported to EPA over the 2004-2016 period, with a focus on the number of accidents during the three-year period of 2014-2016. 84 Fed. Reg. at 69,856. The agency cited a decline in the number of accidents as demonstrating that the Chemical Disaster Rule imposes “unnecessary regulations and regulatory costs.” *Id.* at 69,847.

Even if EPA is correct that the final numbers of reported accidents for 2014-16 are lower than the 2004-13 period used in developing the Chemical Disaster Rule,²⁷ Congress was concerned with much more than the *number* of accidents. Section 112(r) of the Clean Air Act is often referred to as the “Bhopal provision” given the importance of this single incident, which killed more than 3,500 people, in the passage of this provision in the 1990 Clean Air Act

²⁴ Marc Nathanson & Ella Torres, *2 Dead in Houston Explosion That Destroyed Building, Caused ‘Significant Damages’ to Homes*, ABC News, Jan. 25, 2020, <https://abcnews.go.com/US/building-explosion-felt-northwest-houston/story?id=68500936>.

²⁵ U.S. Chemical Safety and Hazard Investigation Board, *CSB Deploying to Fatal Incident in Houston*, Jan. 24, 2020, <https://www.csb.gov/csb-deploying-to-fatal-incident-in-houston/>.

²⁶ Gabriella Banks & Perla Trevizo, *Watson Grinding Files for Bankruptcy in Wake of Deadly Gessner Explosion*, Houston Chronicle, Feb. 7, 2020, <https://www.houstonchronicle.com/news/houston-texas/houston/article/watson-explosion-bankrupt-company-gessner-west-15035913.php>; see also Gabriella Banks, *Bankruptcy Judge Lambastes Watson Grinding for Putting Bank Before Explosion Victims*, Houston Chronicle, Feb. 11, 2020, <https://www.houstonchronicle.com/news/houston-texas/houston/article/Bankruptcy-judge-lambastes-Watson-Grinding-for-15045066.php>.

²⁷ EPA stated that it anticipated the final accident numbers would increase once the most recent five-year reporting phase is completed.

Amendments. The statute directs EPA to issue regulations that prevent the accidental release and minimize the consequences of “any” such release of certain hazardous substances to the greatest extent practicable. 42 U.S.C. § 7412(r)(7)(B)(i).

As EPA acknowledged during the Rollback Rule rulemaking, section 112(r) seeks to address not just the quantity of accidents, but also high consequence chemical accidents that occur with lower frequency:

Section 112(r) of the Clean Air Act aimed to address low frequency and high consequence chemical accidents. *These are catastrophic incidents, which have large societal impacts when they occur, but very little likelihood for any individual chemical facility. As such, market forces may not provide an incentive for any given company to invest in measures to prevent such accidents, as they are so unlikely to occur at the individual level.* However, looking across the United States and the universe of regulated facilities, these accidents occur with sufficient frequency to warrant regulation.

Regulatory Impact Analysis (Nov. 18, 2019) at 20 (emphasis added). Indeed, in explaining the basis for the Chemical Disaster Rule, EPA did not focus on the total number of accidents, but on several, high-profile accidents that demonstrated the need for better safeguards. *See* 82 Fed. Reg. at 4,599 (referencing catastrophic incidents at West Fertilizer (TX), BP Refinery (TX), Chevron Refinery (CA), Tesoro Refinery (WA), and Williams Olefins (LA)). Similarly, the serious accidents highlighted in the States’ supplemental comments—most notably, the PES refinery accident, which could have resulted in catastrophic harm given the location in a major city, toxicity of the chemical, and violence of the explosion—are of central relevance to determining whether EPA’s conclusion, that the added protections of the Chemical Disaster Rule are unnecessary because of the low frequency of industrial accidents, is supported by the record. The more recent TPC Group and Watson Grinding and Manufacturing accidents in Texas further undermine EPA’s conclusion.

B. The States' Supplemental Comments Provided Additional Evidence Undermining EPA's Enforcement Rationale for Eliminating the Additional Accident Prevention Measures.

The States' supplemental comments raised another issue concerning recent accidents that deserves reconsideration: evidence that several of the facilities at which recent accidents occurred had already been the subject of enforcement actions by EPA or a state. EPA contends that it could achieve the same results through enforcement of existing rules as it could from enforcement of the Chemical Disaster Rule, but at lower cost. *See* 84 Fed. Reg. at 69,843.

As discussed in the States' supplemental comments, several recent accidents occurred at facilities where EPA (or a state agency) had already taken enforcement action. *See* States' Supp. Comments at 17-19. For example, we noted that EPA had taken enforcement action against the owners of the MarkWest Energy facility for violations of RMP regulations in 2016. *Id.* at 19. Yet, this enforcement action did not prevent the explosion and fire that occurred in December 2018 that killed one worker and hospitalized three others with burns. Similarly, several other recent accidents highlighted in the States' supplemental comments occurred at facilities that had "high priority" violations as designated by EPA in recent years, including PES, Phillips 66, and U.S. Steel Clairton. *See id.* at 18-19.

Similarly, EPA considered the TPC Group chemical plant a high priority violator and in non-compliance with the Clean Air Act since EPA's last inspection in August 2017.²⁸ State data also shows the TPC Group facility exceeded emission limitations in its air permit at least five times in 2019, including hundreds of pounds of exceedances of the carcinogenic butadiene.²⁹ Together, EPA and the Texas Commission on Environmental Quality fined TPC Group for air

²⁸ Kiah Collier, *Texas Plant Rocked by Explosions Was Declared High Priority Violator by EPA*, Insurance Journal, Dec. 3, 2019, <https://www.insurancejournal.com/news/southcentral/2019/12/03/549998.htm>.

²⁹ *Id.*

emissions violations more than half a dozen times in the past five years after finding many of the missteps preventable.³⁰ The last federal enforcement action against TPC Group faced in 2017 resulted in a consent decree that required TPC Group to pay a civil penalty of \$72,187, make various equipment upgrades, and spend no less than \$275,000 on fence line monitoring for butadiene.³¹

These recent chemical accidents cast serious doubt on EPA's conclusion that an enforcement-based approach can achieve the same results as the Chemical Disaster Rule. This issue is of central relevance to the rulemaking, so EPA must grant reconsideration. *See* 42 U.S.C. § 7607(d)(7)(B).

II. RECONSIDERATION IS WARRANTED BY THE CSB'S RECOMMENDATIONS THAT EPA TAKE ACTION TO ADDRESS THE DANGERS OF HYDROGEN FLUORIDE.

Reconsideration is also warranted because EPA failed to consider the CSB's recommendations in April 2019 that EPA evaluate whether there are viable inherently safer technologies that could be used at petroleum refineries instead of hydrogen fluoride. That objection, which arose after the close of the comment period and was included in the States' supplemental comments, is of central relevance to EPA's decision to rescind the Chemical Disaster Rule's safer technology and alternatives analysis provision. *See* States' Supp. Comments at 13-15 and Ex. B (CSB letter).

As set forth in the supplemental comments, the CSB urged EPA to address the risks of hydrogen fluoride (and its liquid form, hydrofluoric acid) used by petroleum refineries in the alkylation process, citing its recent investigation of accidents of the ExxonMobil Torrance

³⁰ *Id.*

³¹ *Id.*

refinery (CA) in February 2015 and Husky Energy (WI) in April 2018. States' Supp. Comments at 13-14. An explosion at the Torrance refinery spread debris that narrowly missed two tanks containing hydrofluoric acid. *Id.*, Ex. B at 1. Similarly, at Husky Energy, an explosion at the refinery spewed debris near a tank storing hydrofluoric acid and injured more than a dozen employees. *Id.*, Ex. B at 2. Noting EPA's own prior findings that a release of hydrofluoric acid could "travel significant distances downwind as a dense vapor or aerosol cloud, which could pose a significant threat to the public and result in severe consequences," CSB advised EPA to update its 1993 study of the chemical. *Id.*, Ex. B at 3. CSB further urged EPA "to determine whether there are commercially viable, inherently safer alkylation technologies for use in petroleum refineries." *Id.* In that vein, CSB stated its understanding that "new alkylation technologies are being developed, which may have inherent safety advantages over the use of [hydrogen fluoride] at U.S. refineries." *Id.* The CSB identified at least two refineries implementing these alternative technologies, showing the reasonableness and practicality of these alternative technologies.³² *Id.*

The CSB proved to be prescient, as only two months later, an actual leak of hydrogen fluoride occurred at the PES refinery in South Philadelphia, creating a ground-hugging cloud that ignited, causing the violent explosion that destroyed much of the refinery and emitted large quantities of hydrogen fluoride. As explained in the letter sent to EPA by Senators Baldwin, Klobuchar, Smith, Booker, and Menendez on July 19, 2018, due to the proximity of the refinery to a large city, "hundreds of thousands of people in the densely populated area near the refinery could have been injured or killed." States' Supp. Comments, Ex. C at 1. The Senators noted that

³² See also Susan Phillips, *Philadelphia Proposes Banning Hydrofluoric Acid, Toxic Chemical in Refinery Explosion*, WHYY, Feb. 11, 2020, <https://whyy.org/articles/philadelphia-proposes-banning-hydrofluoric-acid-toxic-chemical-in-refinery-explosion/> (discussing that a potential purchaser of PES wants to reopen the site as a refinery but said it would never use hydrogen fluoride again and "instead would use one of two safer alternatives").

refineries in Louisiana and Utah had demonstrated the viability of alternatives to hydrogen fluoride and urged EPA to follow the CSB's recommendations "to update a 1993 study of [hydrogen fluoride's] hazards to help evaluate the adequacy of refineries' risk management plans and the viability of [hydrogen fluoride] alternatives." *Id.*

The CSB's recommendations are of central relevance to EPA's decision to rescind the safer technology and alternatives analysis provision. Indeed, the United Steelworkers advocated for EPA to adopt this provision in part to require refineries to evaluate safer alternatives to hydrogen fluoride, including commissioning a special report on the dangers of using this chemical in the refinery process.³³ In the last four years, the near-catastrophic releases of hydrogen fluoride at the Husky, ExxonMobil, and PES refineries exposed "a shocking level of disregard for public safety," in the words of former CSB managing director Daniel Horowitz. *See States' Supp. Comments at 15.*³⁴

In light of this evidence, EPA should have considered the CSB's recommendations prior to finalizing the Rollback Rule. Because the evidence is of central relevance to whether the safety technology and alternatives analysis can prevent the accidental release and minimize consequences of "any" such release to the greatest extent practicable, EPA must grant reconsideration on that issue.

³³ Letter from United Steelworkers to EPA Docket Center (May 19, 2017) and attached report, *A Risk Too Great*; posted May 25, 2017 at <https://www.regulations.gov/document?D=EPA-HQ-OEM-2015-0725-0859>.

³⁴ Quoting Daniel Horowitz, *This Chemical Kills. Why Aren't Regulators Banning It?*, The New York Times, July 8, 2019, <https://www.nytimes.com/2019/07/08/opinion/philadelphia-chemical-refinery-blast.html>.

III. THE INSPECTOR GENERAL'S DECEMBER 2019 REPORT CASTS DOUBT ON EPA'S POSITION THAT SEVERE WEATHER EVENTS HAVE NOT CAUSED RELEASES OF HAZARDOUS CHEMICALS AT RMP FACILITIES.

In rulemaking comments, the States argued that the increasingly severe weather events attributable to climate change increase the risk of accidents at RMP facilities. This increased weather-related risk also supports maintaining the Chemical Disaster Rule's provisions regarding Program 2 Process hazard reviews, root cause analysis and safer technologies and alternatives analysis. States' Comments (Aug. 23, 2018) at 40. We noted in particular the CSB's finding that the Arkema Crosby (TX) facility, which experienced a fire and release of toxic organic peroxide during Hurricane Harvey in August 2017, had not properly assessed the risk posed by increasingly severe weather. *Id.* In the Rollback Rule, EPA contended that there were "no examples in those data of accidental releases from RMP-covered processes caused by extreme weather events." EPA Response to Comments at 84. With respect to Hurricane Harvey, EPA stated that the Arkema accident "did not involve the release of any RMP-regulated substances" (because organic peroxide is not an RMP-regulated substance) and further, that there was a lack of evidence that other RMP facilities released chemicals covered by the RMP regulation. *See* 84 Fed. Reg. at 69,868.

Putting aside whether that explanation provides a rational basis for dismissing the potential for increased risks due to such events in the future, EPA's conclusion that releases of RMP-regulated substances did not occur during Hurricane Harvey has been called into doubt by the recent attached report of the EPA Office of the Inspector General, *EPA Needs to Improve its Emergency Planning to Better Address Air Quality Concerns During Future Disasters* (Report

#20-P-0062) (December 16, 2019) (“OIG Report”).³⁵ The OIG Report found that most air toxic emission incidents during Hurricane Harvey occurred within a 5-day period after the storm’s landfall when industrial facilities shut down and restarted operations in response to the storm and storage tank failures. However, OIG found that EPA (as well as state and local) mobile air monitoring activities were not initiated in time to assess the impact of these emissions. Additionally, OIG found that once the monitoring started, these efforts did not always generate data considered suitable for making health-based assessments, in part because there was no guidance outlining how to monitor air quality following an emergency. The OIG Report recommends, among other things, that the Assistant Administrator for Land and Emergency Management develop guidance for emergency air monitoring in heavily industrialized areas, develop a plan to provide public access to air monitoring data, and assess the availability and use of remote and portable monitoring methods.

The OIG Report undermines EPA’s conclusion that there is no evidence that Hurricane Harvey caused releases of hazardous chemicals at RMP facilities. Because EPA’s rejection of the States’ comments was based solely on its limited evaluation of releases during past severe weather events like Hurricane Harvey, which the OIG report questions, the report is of central relevance to the Rollback Rule, triggering EPA’s mandatory reconsideration of this aspect of the Rule.

IV. EPA SHOULD STAY THE EFFECTIVENESS OF THE ROLLBACK RULE.

As discussed above, the Rollback Rule’s repeal of key provisions of the Chemical Disaster Rule threatens the health and safety of workers and fence line communities. Therefore,

³⁵ U.S. EPA Office of Inspector General, *EPA Needs to Improve Its Emergency Planning to Better Address Air Quality Concerns During Future Disasters*, Report No. 20-P-0062 (Dec. 16, 2019), https://www.epa.gov/sites/production/files/2019-12/documents/epaig_20191216-20-p-0062.pdf.

EPA should stay the Rollback Rule for the maximum time permitted under the Clean Air Act (three months) while it begins the reconsideration process. *See* 42 U.S.C. § 7607(d)(7)(B); *see also Air All. Houston*, 906 F.3d at 1063. Although the Rollback Rule is already in effect, *see* 84 Fed. Reg. at 69,834, staying the effectiveness of the Rollback Rule together with granting reconsideration would signal to the regulated community and general public that State Petitioners and others have raised important issues that the agency is seriously considering and that could result in revisions to the Rollback Rule.

RELIEF REQUESTED

For the foregoing reasons, the States respectfully request that, pursuant to 42 U.S.C. § 7607(d)(7)(B), (i) the Administrator convene a proceeding for reconsideration of the aspects of the Rollback Rule discussed above and afford the interested public the procedural rights due under 42 U.S.C. § 7607(d)(3)-(5), and (ii) stay the effectiveness of the Rollback Rule for three months during such reconsideration.

February 18, 2020

Respectfully Submitted,

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Appendix 1

U.S. EPA, Office of Inspector General, *EPA Needs to Improve its Emergency Planning to Better Address Air Quality Concerns During Future Disasters*, Report No. 20-P-0062 (Dec. 16, 2019).



U.S. ENVIRONMENTAL PROTECTION AGENCY

OFFICE OF INSPECTOR GENERAL

Improving air quality

EPA Needs to Improve Its Emergency Planning to Better Address Air Quality Concerns During Future Disasters

Report No. 20-P-0062

December 16, 2019



Report Contributors:

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Abbreviations

AEGL	Acute Exposure Guideline Level
AMCV	Air Monitoring Comparison Value
ASPECT	Airborne Spectral Photometric Environmental Collection Technology
CCP	Crisis Communication Plan
EPA	U.S. Environmental Protection Agency
ESF	Emergency Support Function
NAAQS	National Ambient Air Quality Standards
OIG	Office of Inspector General
ppm	Parts Per Million
SLAMS	State and Local Air Monitoring System
SSM	Startup, Shutdown, Malfunction
TAGA	Trace Atmospheric Gas Analyzer
TCEQ	Texas Commission on Environmental Quality

Cover Photo: Residential neighborhood in Houston, Texas, with industrial facilities in the background. (OIG photo)

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U.S. Environmental Protection Agency
Office of Inspector General

20-P-0062
December 16, 2019

At a Glance

Why We Did This Project

We conducted this audit to determine whether the air quality monitoring and related activities conducted in the greater Houston area by the U.S. Environmental Protection Agency (EPA) and the state of Texas:

- Addressed potential high-risk areas.
- Indicated any potential health concerns.
- Accurately communicated air monitoring results and potential health concerns to the public.

On August 25, 2017, Hurricane Harvey made landfall on the U.S. Gulf Coast as a Category 4 storm. Many of the Houston area's air monitors were shut down and secured prior to the storm's landfall to prevent damage. The EPA and state and local agencies subsequently conducted mobile monitoring to assess air quality conditions, including the levels of hazardous air pollutants, which are also called *air toxics*.

This report addresses the following:

- *Improving air quality.*

Address inquiries to our public affairs office at (202) 566-2391 or OIG_WEBCOMMENTS@epa.gov.

List of [OIG reports](#).

EPA Needs to Improve Its Emergency Planning to Better Address Air Quality Concerns During Future Disasters

What We Found

Most air toxic emission incidents during Hurricane Harvey occurred within a 5-day period of the storm's landfall. The majority of these emissions were due to industrial facilities shutting down and restarting operations in response to the storm and storage tank failures. However, state, local and EPA mobile air monitoring activities were not initiated in time to assess the impact of these emissions. Additionally, once started, monitoring efforts did not always generate data considered suitable for making health-based assessments, in part because there was no guidance outlining how to monitor air quality following an emergency.

Developing EPA guidance for collecting and communicating air quality data could improve public confidence in the agency during future disaster responses.

The air monitoring data collected did not indicate that the levels of individual air toxics after Hurricane Harvey exceeded the health-based thresholds established by the state of Texas and the EPA. However, these thresholds do not consider the cumulative impact of exposure to multiple air pollutants at one time. Further, the EPA's thresholds are based on short-term exposure to a single air pollutant and do not consider lifetime exposures. Consequently, the thresholds may not be sufficiently protective of residents in communities that neighbor industrial facilities and experience repeated or ongoing exposures to air toxics.

We did not identify instances of inaccurate communication from the EPA to the public regarding air quality after Hurricane Harvey. However, public communication of air monitoring results was limited. As a result, communities were unaware of the agency's activities and data collection efforts. This lack of awareness can diminish public trust and confidence in the EPA.

Recommendations and Planned Agency Corrective Actions

We recommend that the Assistant Administrator for Land and Emergency Management develop guidance for emergency air monitoring in heavily industrialized areas, develop a plan to provide public access to air monitoring data, and assess the availability and use of remote and portable monitoring methods. We also recommend that the Region 6 Regional Administrator develop a plan to inform communities near industrial areas of adverse health risks and to limit exposure to air toxics in these communities, and conduct environmental justice training. We further recommend that the Associate Administrator for Public Affairs establish a process to communicate the resolution of public concerns. Two of our six recommendations are resolved with corrective actions pending. The remaining four recommendations, which we revised after we issued our draft report, are unresolved pending receipt of corrective action plans from the EPA.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
INSPECTOR GENERAL

December 16, 2019

MEMORANDUM

SUBJECT: EPA Needs to Improve Its Emergency Planning to Better Address
Air Quality Concerns During Future Disasters
Report No. 20-P-0062

FROM: Charles J. Sheehan, Acting Inspector General

A handwritten signature in blue ink that reads "Charles J. Sheehan".

TO: *See Attached List*

This is our report on the subject audit conducted by the Office of Inspector General (OIG) of the U.S. Environmental Protection Agency (EPA). The project number for this audit was OA&E-FY18-0266. This report contains findings that describe the problems the OIG has identified and corrective actions the OIG recommends. This report represents the opinion of the OIG and does not necessarily represent the final EPA position. Final determinations on matters in this report will be made by EPA managers in accordance with established audit resolution procedures.

The EPA provided acceptable corrective actions and milestone dates for two recommendations: Recommendation 5, which is addressed to the Associate Administrator of Public Affairs, and Recommendation 6, which is addressed to the Regional Administrator for Region 6. In accordance with EPA Manual 2750, both recommendations are resolved, and no further response to these recommendations is required.

Action Required

We consider four recommendations to be unresolved: Recommendations 1 through 3, which are addressed to the Assistant Administrator for Land and Emergency Management, and Recommendation 4, which is addressed to the Regional Administrator for Region 6. In accordance with EPA Manual 2750, you are required to provide a written response to this report within 60 calendar days. You should include planned corrective actions and completion dates for the four recommendations that need additional information for resolution. Your response will be posted on the OIG's website, along with our memorandum commenting on your response. Your response should be provided as an Adobe PDF file that complies with the accessibility requirements of Section 508 of the Rehabilitation Act of 1973, as amended. The final response should not contain data that you do not want to be released to the public; if your response contains such data, you should identify the data for redaction or removal along with corresponding justification.

We will post this report to our website at www.epa.gov/oig.

Addressees

Peter Wright, Assistant Administrator for Land and Emergency Management
Ken McQueen, Regional Administrator for Region 6
Corry Schiermeyer, Associate Administrator for Public Affairs

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Chapter 1

Introduction

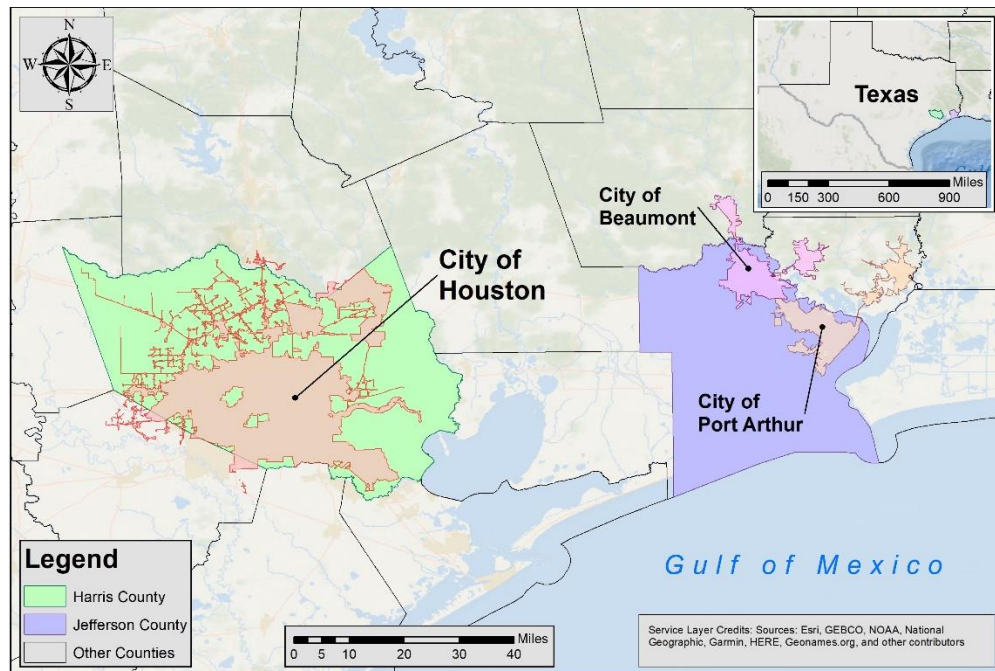
Purpose

The Office of Inspector General (OIG) for the U.S. Environmental Protection Agency (EPA) conducted this audit to determine whether the EPA's and the state of Texas' air quality monitoring and related activities after Hurricane Harvey (1) addressed potential high-risk areas, (2) indicated any potential health concerns, and (3) were accurately communicated to the public with respect to monitoring results and potential health concerns.

Background

On August 25, 2017, Hurricane Harvey made landfall on the U.S. Gulf Coast as a Category 4 storm, dropping over 19 trillion gallons of rain across the region (Figure 1). During this unprecedented weather event, the highest total rainfall in the nation's history—60.58 inches—was recorded near Nederland, Texas, about 90 miles east of Houston. According to state officials, more than 270,000 homes were impacted, with approximately 80,000 homes inundated with at least 18 inches of water. Hurricane Harvey was the most expensive natural disaster in more than a decade and the second costliest in U.S. history, causing an estimated \$125 billion in damage.

Figure 1: Region impacted by Hurricane Harvey



Source: OIG analysis using Esri's ArcMap, a mapping and location analytics platform.

According to the United States Global Research Program’s most recent climate assessment,¹ “heavy precipitation events in most parts of the United States have increased in both intensity and frequency since 1901 and are projected to continue to increase over this century.” Further, “the heaviest rainfall amounts from intense storms, including hurricanes, have increased by 6% to 7%, on average, compared to what they would have been a century ago.” Similarly, a study published in the *Proceedings of the National Academy of Sciences of the United States of America* indicates that the annual probability of rainfall in excess of 19 inches has increased sixfold since the late 20th century.² Thus, the likelihood that the EPA, states and local governments will have to continue to respond to disasters similar to Hurricane Harvey has also increased.

Air Quality Impacts of Hurricane Harvey

Before Hurricane Harvey made landfall, many industrial sources of air pollution—such as oil and gas production facilities—shut down their operations in anticipation of heavy rainfall and flooding. When industrial facilities shut down or restart their plant operations, significant spikes in air pollutants—including hazardous air pollutants, which are also referred to as *air toxics*—can result. These spikes are often referred to as startup, shutdown, malfunction (SSM) emissions.

Many industrial facilities affected by Hurricane Harvey were forced to make last-minute decisions regarding whether to shut down because of the uncertain course of the storm. Facilities in Corpus Christi, Texas, which is located southwest of Houston, were forecasted to be in the storm’s path and were able to coordinate shutdown activities early, thus reducing SSM emissions. However, the hurricane’s course toward Houston was not as clear. When the storm did make landfall, it stalled over southeastern Texas, leading to massive flooding. Many facilities in Houston, therefore, were shutting down within 24 hours of when the heavy rainfall began. After the storm passed and flooding subsided, all the facilities that shut down resumed normal operations.

According to excess emissions reports voluntarily submitted to the Texas Commission on Environmental Quality (TCEQ) by impacted facilities in Harris and Jefferson counties, Hurricane Harvey resulted in industrial facilities releasing an extra 340 tons of air toxics.³ These emissions were from accidents, facility

¹ USGCRP, 2017: *Climate Science Special Report: Fourth National Climate Assessment, Volume I* [Wuebbles, D.J., D.W. Fahey, K.A. Hibbard, D.J. Dokken, B.C. Stewart, and T.K. Maycock (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, 470 pp, doi: 10.7930/JOJ964J6.

² Kerry Emanuel, “Assessing the present and future probability of Hurricane Harvey’s rainfall,” *Proceedings of the National Academy of Sciences of the United States of America* 114, no. 48 (November 28, 2017): 12681–84.

³ Excess emissions are self-reported by facilities to the TCEQ. The reporting rule requiring these submissions was suspended during and for 7 months after Hurricane Harvey. Thus, the total emissions reported likely underrepresent the total excess emissions due to Hurricane Harvey. For example, only 13 of nearly 400 major industrial facilities operating in Harris and Jefferson counties reported excess emissions due to facility shutdowns or startups during the hurricane. Of these 13 facilities, six reported only emissions related to a shutdown event.

shutdowns during the hurricane and facility startups after the hurricane. For example:

- A gasoline spill at Magellan in the Galena Park Terminal released an estimated 282 tons of combined air toxics, including over 6 tons of benzene.
- A floating roof tank failure at Valero released an estimated 12.5 tons of combined air toxics.
- During a startup event, the Flint Hills Resources Port Arthur Facility released 0.89 tons of air toxics.
- During a shutdown event, the ExxonMobil Beaumont Refinery released 0.07 tons of air toxics.

The impact on air quality concerned community members and health officials. Short-term exposure to air toxics such as benzene can cause drowsiness; dizziness; headaches; irritation to eyes; skin and respiratory tract problems; and, at very high levels, unconsciousness and death. In addition, residents who live near Houston-area industrial facilities already experience chronic exposure to high levels of air pollution.

Health Impacts in Fenceline Communities

According to a study published in *Environmental Science and Technology*, the health impacts of direct and indirect particulate matter emissions from SSM events in Texas were estimated to cost \$148 million in 2015.⁴ An analysis of air pollution risks in the greater Houston area conducted for the Houston Mayor's Task Force on the Health Effects of Air Pollution reached the following conclusion:

East Houston neighborhoods that face a number of vulnerabilities based on their marginal social and economic standing also carry a heavier burden of health risks from breathing pollutants in their air. They tend to be located closer to major point sources than most other neighborhoods in the Greater Houston area and to be nearer to major transportation corridors.

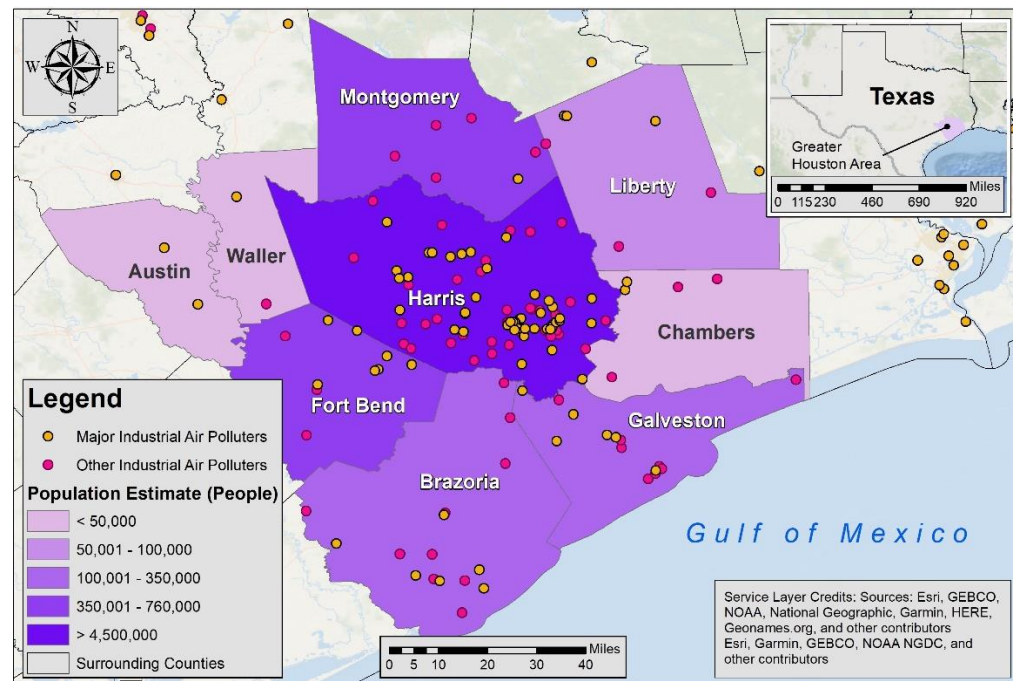
Air pollution can lead to health effects that often go unaddressed in communities where residents have limited financial and health care resources. Further, residents of fenceline communities—neighborhoods that are directly next to a facility and are directly impacted by the facility's operations, including air emissions—are often unable to relocate because of low home values. The lack of resources and the disproportionate layering of intersecting social factors create additional challenges in these communities when faced with a weather event like Hurricane Harvey.

⁴ Ziropiannis, Nikolaos, Alex J. Hollingsworth and David M. Konisky, "Understanding Excess Emissions from Industrial Facilities: Evidence from Texas," *Environmental Science and Technology* 52, no. 5 (2018): 2482–90.

Industrial Makeup and Demographics of Greater Houston Area

The greater Houston area encompasses nine counties along the Gulf Coast in southeastern Texas and is the fifth-most populous metropolitan statistical area in the United States, with a population of over 6 million people as of 2014 (Figure 2). The Houston area is also a major industrial center and is home to hundreds of petrochemical facilities, including two of the four largest petroleum refineries in the United States. According to the Mayor's Task Force on Health Effects of Air Pollution, the massive petrochemical complex along the Houston Ship Channel is the largest in the country, and the Port of Houston is the sixth largest port in the world and is the second largest in the country in terms of total tonnage. These facilities release several types of air pollutants, including air toxics that can cause cancer or other serious health problems.

Figure 2: Houston population estimates and industrial air polluter locations (as of 2017 and 2019, respectively)



Source: OIG analysis using Esri's ArcMap.



Houston Ship Channel. (OIG video)

The National Air Toxics Assessment is the EPA’s periodic estimate of the public’s cancer and noncancer health risks from long-term exposure to air toxics in the United States. The most recent estimate of national average cancer risk—the 2014 National Air Toxics Assessment⁵—was estimated as 30 in 1 million. This estimate has not historically accounted for SSM emissions, however. As noted on the EPA’s *National Air Toxics Assessment* website, the assessment “may not accurately capture sources that emit only at certain times (e.g., ... startups, shutdowns, malfunctions and upsets).” Still, for 2014, this screening tool estimated elevated risk levels for *all* census tracts in the Houston area,⁶ with a countywide average cancer risk of 45.89 in 1 million but with some cancer risks estimated as high as 348 in 1 million. Most of the Houston area’s highest risk census tracts were in East and Southeast Houston.



Houston community center playground neighboring an industrial facility, with smokestacks in the background. (OIG video)

The Houston area is unusual in that—due to a lack of zoning requirements—many residential

communities are located next to or near industrial sources of air pollution. The number and density of industrial sources and their proximity to residents contribute to the elevated health risks in the Houston area. The area’s fence line

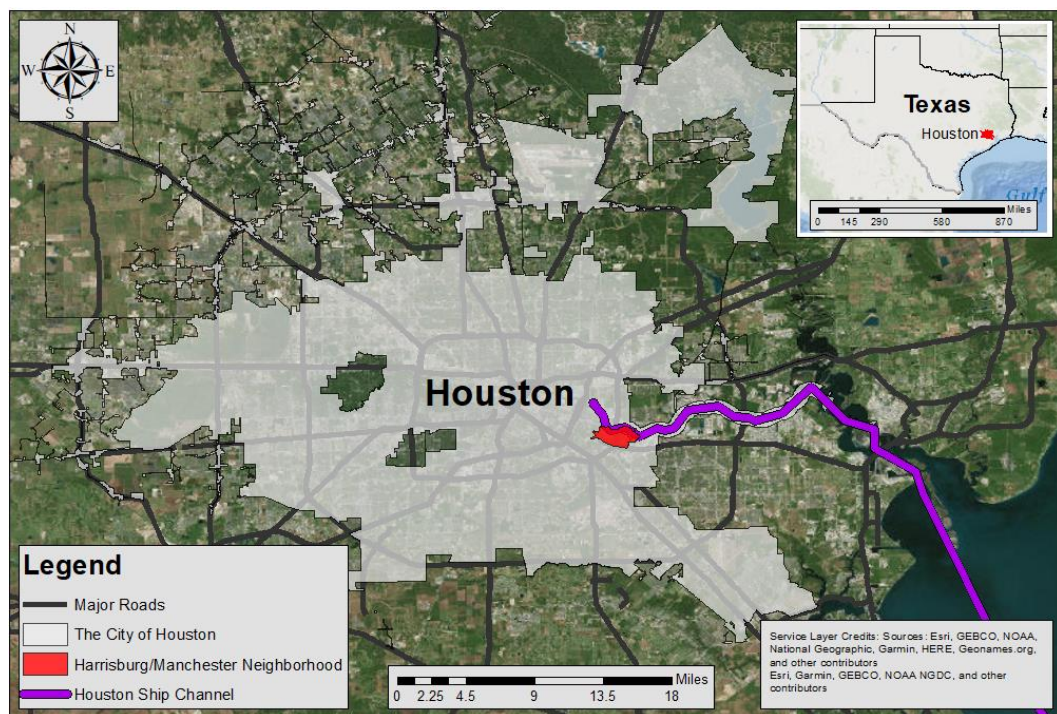
⁵ The EPA released the 2014 National Toxics Assessment on August 22, 2018. The assessment is based on air toxics emissions for calendar year 2014.

⁶ Per the U.S. Census Bureau, a *census tract* is a small, relatively permanent statistical subdivision of a county for the purpose of presenting data. Census tracts nest within counties, and their boundaries normally follow visible features but may follow legal geography boundaries and other nonvisible features in some instances. Census tracts ideally contain about 4,000 people and 1,600 housing units.

communities are also often *environmental justice communities*,⁷ which are communities predominantly comprising minority and low-income residents.

For example, as shown in Figure 3 below, the Harrisburg/Manchester neighborhood in Harris County in East Houston sits along the Houston Ship Channel, home to several industrial emitters of wastewater, air contaminants and hazardous waste. According to the Mayor’s Task Force on Health Effects of Air Pollution, this neighborhood routinely exceeded safe levels for seven of the 12 air pollutants that the task force deemed “definite risks.” Furthermore, the Harrisburg/Manchester neighborhood is surrounded by major transportation corridors. Both the Sidney Sherman Bridge, which services Interstate 610 over the Houston Ship Channel, and multiple rail tracks run through the community.

Figure 3: Houston’s Harrisburg/Manchester neighborhood



Source: OIG analysis using Esri’s ArcMap.



Union Pacific rail tracks, Houston. (OIG photo)

⁷ *Environmental justice* is defined by the EPA as “the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies.”



Ship Channel Bridge, Houston. (OIG video)

In addition to the inherent vulnerability of the community's location, Harrisburg/Manchester residents face several socioeconomic challenges. According to the U.S. Census Bureau American Community Survey, 2013–2017, more than 25 percent of the neighborhood's residents live at or below the poverty line. Approximately 37 percent of Harrisburg/Manchester residents, ages 16 to 64, were either unemployed or worked less than 6 months in 2017. More than one-third (36 percent) of Harrisburg/Manchester residents ages 25 to 64 reported that they had not graduated from high school. Finally, in 2017, about 22.5 percent of the population age 5 and above speak English "not well" or "not at all."

EPA Assisted Texas' Response to Hurricane Harvey under the Stafford Act

On August 25, 2017, the President declared a major disaster in Texas at the request of the Texas Governor. This declaration allowed the federal government to assist local emergency responders under the authority of the Robert T. Stafford Disaster Relief and Emergency Assistance Act and under the direction of the U.S. Federal Emergency Management Agency. The federal government *supports* state and local entities during an emergency response, consequently, the TCEQ served as the lead agency for the Hurricane Harvey environmental response.

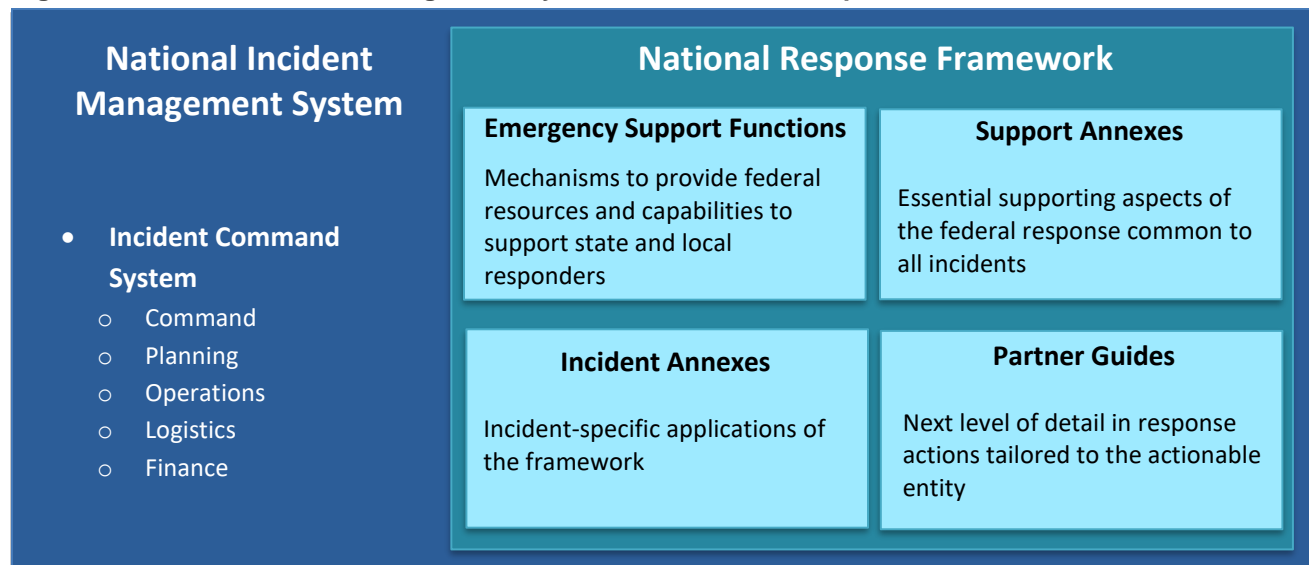
To coordinate Hurricane Harvey response activities, a unified command was established among the EPA, the TCEQ, the General Land Office of Texas and the U.S. Coast Guard to oversee the evaluation and cleanup of spills, releases and orphan containers. This command was supported by three operational branches in Corpus Christi, Houston and Port Arthur. In addition, the EPA's Emergency Operations Center serves as the agency's emergency response operational focal point for all its emergency response efforts, as well as a communication hub to increase data management and coordination capabilities. The EPA also staffed on-scene coordinators to monitor or direct responses to all oil spills and hazardous substance releases reported to the federal government. The on-scene coordinators

worked with, provided support to and disseminated information to local, state and regional response communities regarding all federal efforts.

National Incident Management System and Response Framework

The federal government’s response to a national disaster is guided by the National Incident Management System and the National Response Framework, which work together to provide a comprehensive approach to domestic incidents (Figure 4). The National Incident Management System provides management and organizational structures—such as the Incident Command System—to assist operations across jurisdictions and disciplines. The Incident Command System is a management structure that assists in managing resources, making decisions and assigning responsibilities. It also establishes a chain of command detailing how authority and information flow during an incident. Under the Incident Command System, the Incident Commander has overall responsibility for the incident; for determining incident objectives; and for establishing priorities based on the nature of the incident, the resources available and agency policy.

Figure 4: National Incident Management System and National Response Framework



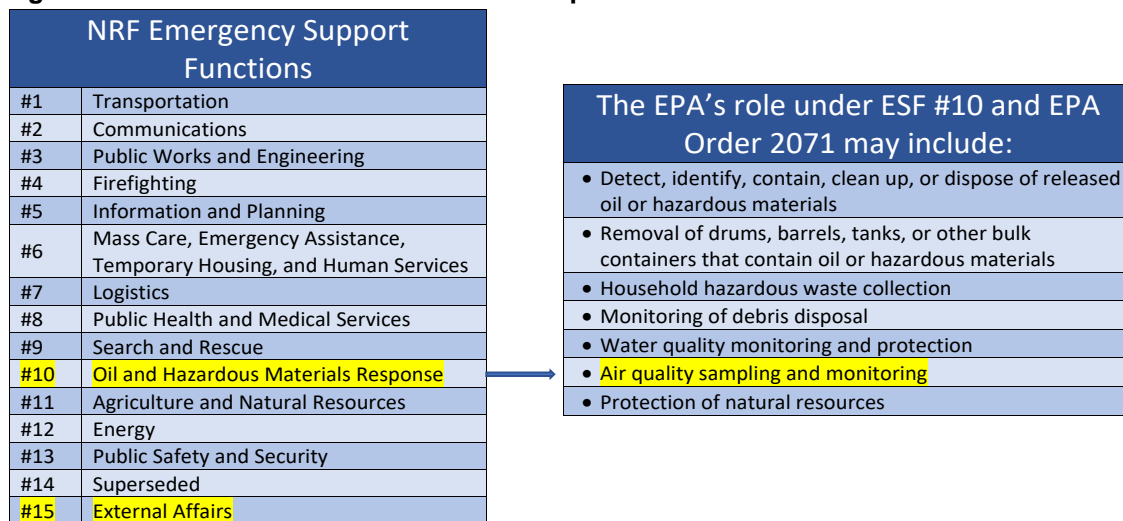
Source: EPA analysis of Federal Emergency Management Agency information.

The National Response Framework is composed of 15 Emergency Support Functions (ESFs) that detail how agencies implement their capabilities and coordinate the resources required in a national response. For Hurricane Harvey, the Federal Emergency Management Agency activated EPA Region 6 under ESF #10, Oil and Hazardous Materials Response, on August 28, 2017. ESF #10 “includes the appropriate actions to prepare for and respond to a threat to public health, welfare, or the environment caused by actual or potential oil and hazardous materials incidents.”

Each ESF contains a range of possible mission assignments for federal agencies activated to respond to a national disaster. ESF #10 actions can include those to “prevent, minimize, or mitigate a release”; “detect and assess the extent of environmental contamination, including environmental monitoring”; and “stabilize the release and prevent the spread of contamination.” Under EPA Order 2071, *National Approach to Response*, which documents agency policy for the National Incident Management System, the EPA’s role under ESF #10 may include air quality sampling and monitoring.

In addition to EPA Order 2071, the EPA’s response to national emergencies is governed by EPA Order 2010, *Crisis Communication Plan (CCP)*. The CCP outlines the process for the EPA to coordinate and communicate environmental information to the public. The EPA initiated its CCP under ESF #15—External Affairs—on August 28, 2017, “to ensure rapid response to providing coordinated, accurate, up-to-date information regarding its field activities.” Figure 5 shows the EPA’s roles under the National Response Framework.

Figure 5: EPA’s roles under the National Response Framework



Source: National Response Framework and EPA Order 2071.

Note: Yellow highlighted text indicates the EPA’s roles.

Through ESF #15, the National Response Framework delivers “coordinated, prompt, reliable, and actionable information” on threats and hazards to the entire affected community to “expedite the delivery of emergency services and aid the public in taking protective actions.” Per EPA Order 2071, the EPA’s role under ESF #15 “integrates Public Affairs and the Joint Information Center, Congressional Affairs, Intergovernmental Affairs (state, local, tribal and territorial), Planning and Products and the Private Sector under the coordinating auspices of external affairs.” The order also says that the Joint Information Center “ensures the coordinated release of information,” while the “Planning and Products component of external affairs develops all external and internal communications strategies and products.”



TCEQ air monitor in Houston.
(OIG photo)

Air Monitoring Conducted after Hurricane Harvey

Managed by the TCEQ, the state and local air monitoring system (SLAMS) network in Texas collects data about six criteria air pollutants to determine whether air quality meets the National Ambient Air Quality Standards (NAAQS) established by the EPA.⁸

There are adverse health effects associated with each of the six criteria air pollutants. For example, short term exposure to ozone is associated with deaths from respiratory causes, while long-term exposure to ozone is linked to asthma aggravation and development, as well as permanent lung damage.

In addition to measuring criteria air pollutants, the TCEQ's SLAMS routinely collects data for over 100 different air toxics to determine whether their levels exceed Air Monitoring Comparison Value (AMCV) thresholds established by the TCEQ. If a TCEQ SLAMS monitor detects a chemical concentration that exceeds its associated AMCV threshold, adverse health effects in the public are not necessarily anticipated. However, the TCEQ considers these data during any future permitting process.

Starting on August 23, 2017, before Hurricane Harvey made landfall, the TCEQ began preparations to shut down its SLAMS sites and monitors in the Houston area to protect the network from storm damage. Once the storm was over, the TCEQ began taking steps to restore its air monitoring operations. By September 13, 2017, most of the air monitoring network in the Houston area was once again operational. By September 29, 2017, Houston's network was 100 percent operational.



Top to bottom: TAGA bus. ASPECT aircraft.
(EPA photos)

⁸ The Clean Air Act, as amended, requires the EPA to set NAAQS for pollutants considered harmful to public health and the environment. The EPA established NAAQS for six principal pollutants, which are called *criteria air pollutants*: carbon monoxide, lead, ground-level ozone, nitrogen dioxide, particulate matter and sulfur dioxide. Per the act, states are responsible for maintaining an air quality monitoring network to provide “timely air quality data upon which to base national assessments and policy decisions.” The Clean Air Act also requires each state to have a state implementation plan to attain and maintain the NAAQS. Many of these state implementation plans (such as Texas’) included provisions that govern SSM events and provided automatic exemptions from enforcement for facilities whose SSM emissions violate the Clean Air Act standards. In 2015, the EPA found that the SSM provisions included in the state implementation plans for Texas and 35 other states were “substantially inadequate” to meet Clean Air Act requirements (*State Implementation Plans: Response to Petition for Rulemaking*, 80 Fed. Reg. 33840, 33845 (June 12, 2015)). However, in April 2019, EPA Region 6 proposed to deviate from the agency’s finding and allow Texas to maintain its existing SSM provisions. As of October 2019, the EPA was revising its SSM policy.

Although the SLAMS can provide useful air quality information during or after an emergency, these fixed, stationary networks were not specifically designed for that purpose and may not be able to withstand emergency conditions. An emergency response may therefore require portable, remote sensing or other monitoring techniques to obtain air quality data, especially for those locations and pollutants not regularly monitored by existing networks. Existing technologies—such as the EPA’s Airborne Spectral Photometric Environmental Collection Technology (ASPECT) and the EPA’s Trace Atmospheric Gas Analyzer (TAGA)—provide alternative solutions to this issue by either analyzing remote infrared and photographic imagery or by directly collecting pollutant concentrations using gas chromatography.

After Hurricane Harvey, the EPA and the city of Houston used a variety of temporary monitoring methods to capture conditions around industrial sites. These efforts included monitoring conditions next to industrial fencelines with handheld instruments, such as toxic vapor analyzers, summa canisters, optical gas imaging cameras and portable multi-gas monitors. In addition, from August 31



Top: Valero facility fencing displaying community banner. *Bottom:* Community park and housing adjacent to Valero facility in the background. (OIG photos)

through September 11, 2017, the EPA conducted flyovers of facilities with the ASPECT plane, screening pollutant plumes for potential hazardous emissions near high priority industrial targets. The agency also drove a TAGA bus throughout the impacted region from September 6 through 20, 2017. Additional air monitoring was conducted using portable instruments by a firm under contract to the Environmental Defense Fund, which is a nongovernmental organization. Although this private monitoring was not conducted at the request of the EPA or state and local agencies, the results were made available to the EPA and the TCEQ.

In a September 8, 2017, press release, the EPA and the TCEQ informed Houston communities that available data collected around the Valero facility indicated that local residents should not be concerned about air quality issues related to the effects of the storm. The EPA issued six press releases related to fuel waivers, four related to water or Superfund issues, and six that specifically addressed air toxic exposure concerns related to an explosion and fires at the Arkema plant in

Crosby, Texas.⁹ The six press releases related to Arkema, some of which were issued jointly with the TCEQ, informed members of the public about the fire and chemical release; assured them that the TCEQ and the EPA were monitoring the smoke and air quality; and advised them to limit their exposure by staying indoors, keeping their doors and windows closed, and continually running their air conditioners. On September 1, 2017, an EPA press release stated that neither aerial surveillance nor ground-level air quality monitoring “found toxic concentration levels in areas away from the evacuated facility.”

Responsible Offices

The EPA’s Office of Emergency Management, within the Office of Land and Emergency Management, develops and implements regulations related to emergency management and is central to the EPA’s emergency preparedness and response efforts. The Office of Emergency Management also maintains valuable air quality assets that can be used during emergencies.

EPA Region 6 worked directly with the TCEQ and other government and nongovernmental stakeholders in the overall emergency response effort and, specifically, the air monitoring response effort.

The EPA’s Office of Public Affairs within the Office of the Administrator is responsible for coordinating the agency’s external message for emergency response activities.

Scope and Methodology

We conducted our audit from August 2018 through July 2019. We conducted this audit in accordance with generally accepted government auditing standards. Those standards require that we plan and perform the audit to obtain sufficient, appropriate evidence to provide a reasonable basis for our findings and conclusions based on our objectives. We believe that the evidence obtained provides a reasonable basis for our findings and conclusions based on our objectives.

We encountered an impediment to obtaining all the desired information to complete our audit, as described below. We were still able to obtain enough information to answer our objectives, although this impediment impacted our

⁹ The Arkema plant manufactures organic peroxides. Due to extensive flooding from Hurricane Harvey, the plant lost power, backup power and critical organic peroxide refrigeration systems. On August 31, 2017, organic peroxide products stored inside a refrigerated trailer decomposed, causing the peroxides and the trailer to burn. After the vapor from the decomposing products traveled across a public highway adjacent to the plant, 21 people sought medical attention from exposure to the fumes. Over the next several days, a second fire and a controlled burn consumed eight more trailers holding Arkema’s remaining organic peroxide products. During these three fires, over 350,000 pounds of organic peroxide combusted, and more than 200 residents living within 1.5 miles of the facility evacuated the area and could not return home for a week. A U.S. Chemical Safety and Hazard Investigation Board report (No. [2017-08-I-TX](#)), issued May 2018, provides more details on the Arkema explosion and fires.

ability to analyze all air quality data and to definitively determine the rationale for certain decisions. We believe that the evidence obtained provides a reasonable basis for our findings and conclusions based on our audit objectives.

To understand the EPA's responsibilities during emergency situations, we reviewed the following statutes, policies, guidance and documents:

- The Clean Air Act, as amended.
- The Stafford Act.
- The Emergency Planning and Community Right-to-Know Act.
- The National Response Framework.
- The National Incident Management System.
- EPA Order 2071, *National Approach to Response*.
- EPA Order 2010, *Crisis Communication Plan*.
- EPA press releases.
- EPA internal documents related to emergency response.

We also conducted interviews with staff from EPA Region 6, the Office of Land and Emergency Management, the Office of Air and Radiation, and the Office of Research and Development. We discussed emergency response activities at the county and city levels with officials representing Harris County and the city of Houston. Finally, we discussed the EPA, state and local emergency responses with nongovernmental organizations and community members.

To understand how and when air monitoring occurred, we collected and analyzed air toxic data from several sources, including the EPA's Air Quality System, TAGA bus and ASPECT aircraft; the TCEQ's Air Emission Event Report database; the city of Houston; and Entanglement Technologies, a private company under contract with the Environmental Defense Fund. We compared these data to the TCEQ's short-term AMCVs and the EPA's Acute Exposure Guideline Levels (AEGs) to identify any potential health impacts of Harvey-related air emissions.¹⁰ We also compared the location, timing and duration of the monitoring with reported excess emissions incidents to identify any potential data gaps in areas of elevated air emissions.

After the hurricane, the EPA's Office of Emergency Management and Region 6 developed after-action reports based on online surveys, written questionnaires and interviews with EPA response personnel. These reports identified areas of strength, lessons learned and recommendations to be used in future EPA responses. We reviewed these documents and developed an OIG survey to assess

¹⁰ The TCEQ maintains two sets of AMCVs: short-term comparison values and long-term comparison values. Short-term AMCVs are based on acute (short-term) health effects data and are used to evaluate air quality averaged over short time frames (e.g., 30 minutes to 1 hour), while long-term AMCVs are based on chronic health effects data and are used to evaluate air quality averaged over a year or more. The EPA's AEGs describe the human health effects from once-in-a-lifetime, or rare, exposure to airborne chemicals. The AEGs are generally used by emergency responders when dealing with chemical spills or other catastrophic exposures.

the effectiveness of the EPA's communications regarding air quality in response to Hurricane Harvey. This survey was designed to determine whether the EPA's on-the-ground response and Harvey-related EPA communications were effective. We distributed the survey to 59 EPA staff who served as community liaisons during the response. We received 44 responses and analyzed the data.

Impediment to Obtaining Information

TCEQ staff, managers and officials declined to meet with us to discuss their response to the hurricane and their reasoning for various decisions or actions described in this report. We provided the TCEQ with an initial list of questions before scheduling a meeting at TCEQ offices in September 2018. The TCEQ cancelled the meeting the day before we were scheduled to meet due to an impending tropical storm. Also, the TCEQ declined to meet with us during a subsequent week when we visited the Houston area to meet with city officials and community representatives from impacted areas. Further, despite several conversations to arrange for written answers to our initial list of questions, we never received a response from the TCEQ. Subsequent to our unsuccessful attempts to arrange meetings and obtain information from the TCEQ, we learned that the TCEQ collected air monitoring data from helicopter flyovers following Hurricane Harvey. We were unable to review those data as a part of this audit. However, we believe that the evidence we obtained provides a reasonable basis for our findings and conclusions based on our audit objectives.

Prior OIG Reports

EPA OIG Report No. [2006-P-00033](#), *Lessons Learned: EPA's Response to Hurricane Katrina*, issued September 14, 2006, identified deficiencies in the EPA's coordination with state and local officials, as well as in the EPA's use of its floodwater database. The OIG recommended, among other things, interagency meetings and training for EPA Region 6 and state staff on the Incident Command System and the ESFs. The agency agreed with the OIG's recommendations and implemented appropriate corrective actions.

EPA OIG Report No. [19-P-0236](#), *Region 6 Quickly Assessed Water Infrastructure after Hurricane Harvey but Can Improve Emergency Outreach to Disadvantaged Communities*, issued July 16, 2019, found that EPA Region 6 conducted extensive preparation activities and forged close working relationships with state emergency response partners well before Hurricane Harvey made landfall. This preparation enabled Region 6 to protect human health and water sector resources as part of its Hurricane Harvey mission assignment. The OIG identified one area for improvement—staff outreach to residents of vulnerable communities—that would further enhance the region's emergency response capabilities. The OIG recommended, among other things, that the EPA Region 6 Regional Administrator include environmental justice outreach in planning and pre-landfall preparation exercises by gathering data to determine the population, unique needs and

challenges of vulnerable communities. The agency agreed with the OIG's recommendations and, as of October 2019, was in the process of implementing appropriate corrective actions.

EPA OIG Report No. [20-P-0010](#), *EPA Adequately Managed Hurricane Harvey Funding Received from FEMA*, issued on October 23, 2019, found that the EPA effectively managed its Hurricane Harvey Disaster Relief Funding. The OIG did not identify any significant issues in the EPA's contracting, logistics or resource acquisition processes. The OIG noted that the agency had already identified strengths and areas for improvement and had implemented corrective actions in response to the OIG's recommendations in its 2006, 2008 and 2014 reports regarding its emergency responses. The OIG made no recommendations to the agency in this audit.

Chapter 2

Better Planning Was Needed to Coordinate Air Quality Monitoring Efforts

The EPA, the state of Texas and the city of Houston lacked guidance and procedures for conducting air quality monitoring in response to an emergency. As a result, their ability to assess and communicate air quality-related health risks to the public during and after the Hurricane Harvey emergency response was limited. The nature of an emergency response requires flexibility and cannot be predetermined. However, EPA guidance would help future efforts address when, where and how long to monitor air quality; the minimum quality assurance needed to obtain data that can be used to assess health risks; and other issues related to air monitoring. Although the data from Hurricane Harvey monitoring efforts did not exceed the health-based thresholds used during the response (e.g., the TCEQ's AMCVs), pre-emergency planning and coordination by the EPA and the TCEQ could lead to more effective monitoring and communication during future emergency responses.

Monitoring Not Conducted During Most Air Toxic Emission Incidents

In response to the Hurricane Harvey disaster, a nongovernmental organization, local governmental entities and the EPA collected air monitoring data with four distinct mobile monitoring efforts over a span of 21 days (August 31–September 20, 2017). Despite the broad range of monitoring efforts, this monitoring:

- Did not coincide with most industry-reported air toxic emission incidents occurring during the disaster.
- Sometimes used ineffective techniques to collect data. For example, a nongovernmental organization collected samples over a duration too short to analyze whether the concentrations were harmful to human health.

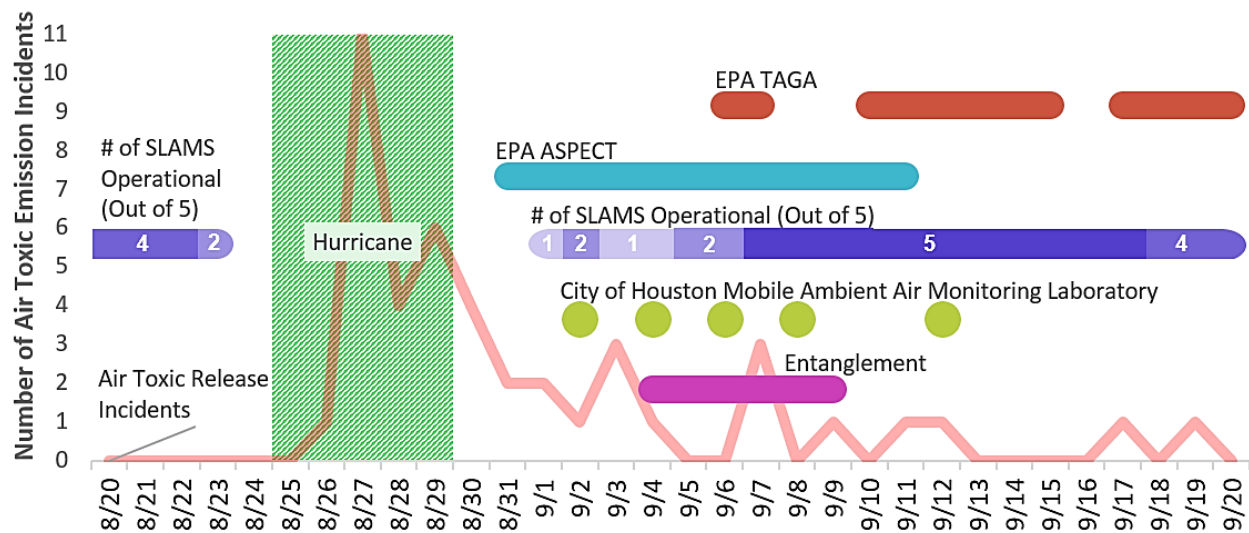


Video showing air toxic releases and monitoring methods used over time. (OIG video)

Over half of all known air toxic emission incidents began when no monitors were operating. Companies in the Houston area reported over 319 tons of air toxic emissions due to Harvey-related SSM activities. However, when these facilities were shutting down and when the first malfunctions and air toxic emissions occurred, most of the TCEQ's monitors in Houston's air monitoring network had been turned off and secured to protect them from storm damage.

Figure 6 illustrates the different air monitoring efforts during the Hurricane Harvey emergency response,¹¹ as well as the asset owner/operator. Our comparison of these monitoring timelines to the TCEQ’s repository of self-reported SSM emission data revealed that most air toxic emission incidents occurred from August 26 through 31, 2017—after the TCEQ disabled its SLAMS in the Houston area and before the EPA began collecting data with its ASPECT flight response. Many of the air toxic emissions during the peak incident period were from storage tank leaks due to excessive rainfall. However, since these reported emissions occurred before temporary monitoring had begun or the SLAMS was redeployed, we were unable to assess their impact on air quality.

Figure 6: Monitoring efforts and air toxic emission incidents during the Hurricane Harvey response



Source: OIG analysis.

Notes: This chart includes only SLAMS monitors capable of detecting air toxics, not NAAQS monitors. ASPECT operation dates are based on actual data submitted to the OIG.

An example of an air toxic emission incident during the peak incident period was Valero Partners’ roof tank failure. This incident—which released an estimated 12.5 tons of air toxics, including benzene, hexane and toluene—began on August 27, 2017, when all SLAMS monitors were offline and before emergency monitoring had begun. The Arkema Crosby Plant explosion, another widely publicized event, occurred on August 31, 2017, before the EPA’s TAGA bus or the city of Houston’s Mobile Ambient Air Monitoring Laboratory had been deployed. At the time of the explosion, only the ASPECT was operational.

¹¹ Although NAAQS monitors were also offline during this time, given our audit focus on air toxics, we did not extensively assess criteria air pollutants. However, according to an Environmental Integrity Project report, based on self-reported data in the State of Texas Environmental Electronic Reporting System, ozone precursor emissions were high along the Gulf Coast following Hurricane Harvey. Per the report, from August 23 through September 1, 2017, approximately 3.9 million pounds of volatile organic compounds were released into the Houston region by surrounding industries, and “[n]itrogen oxides totaled about 154,000 pounds during the same period in the Houston region.”

As demonstrated in Table 1, communities located close to industries faced an increased likelihood of exposure to SSM emissions during the emergency response period. For example, 38 percent of all known air toxic emission incidents due to Hurricane Harvey that were reported by Houston-area industries occurred fewer than 4 miles from the Harrisburg/Manchester neighborhood in East Houston. These incidents accounted for over 93 percent (a total of nearly 300 tons) of all known air toxic emissions occurring in Harris County during the disaster, despite this geographical region accounting for only 4.5 percent of the county.

Table 1: Proximity of air toxic emissions to Harrisburg/Manchester, August 20–September 20, 2017

Category	Value
Tons released in a 4-mile radius of Harrisburg/Manchester	298.71
Total tons released in Harris County	319.97
Percent of Harris County emissions released in a 4-mile radius of Harrisburg/Manchester	93%

Source: OIG analysis of industry data reported to TCEQ.

In 2018, the EPA’s Office of Air and Radiation amended the National Emission Standard for Hazardous Air Pollutants for petroleum refineries to require that, starting in January 2019, these facilities report their monitoring data for benzene concentrations at the perimeters of their facilities.¹² The monitoring and reporting requirements were not yet in place when Hurricane Harvey hit Houston. However, the monitors used to collect the benzene data could provide useful information for assessing air quality impacts related to future emergency responses in the Houston area and other industrialized locations. These monitors are also relatively cost-effective and replaceable if damaged, unlike the TCEQ’s SLAMS monitors. These low-cost sensors could therefore be used in fenceline communities during emergency situations.

Some Data Considered Unusable for Health Assessments Due to Monitoring Duration

Governmental and nongovernmental organizations collected data to evaluate the region’s air quality after the hurricane by comparing these data to existing health-based air quality thresholds. The results of these comparisons were used to assess whether the air quality was likely to result in adverse human health effects. However, due to quality control-related reasons, the TCEQ did not use much of the data collected to make health-based assessments. Table 2 shows which data collected could not be used to make health assessments related to local air quality.

¹² 83 Fed. Reg. 60696, November 26, 2018.

Table 2: Usability of data collected during Hurricane Harvey for health-based assessments

Monitoring asset	Asset owner	Monitoring type	Data usable?
TAGA	EPA	Temporary mobile monitor	No
ASPECT	EPA	Temporary mobile monitor	No
SLAMS	TCEQ	Permanent stationary monitors	Yes
Mobile Ambient Air Monitoring Laboratory	City of Houston	Temporary mobile monitor	No ^a
Portable monitoring	Entanglement Technologies	Temporary mobile monitor	No ^b

Source: OIG analysis.

Note: The colors differentiating the assets in this table correlate with the colors used in Figure 6, which illustrates when the monitoring efforts using these assets were conducted.

- ^a The laboratory's monitoring time frames were sufficiently long enough to produce data useable for health-based assessments; however, the TCEQ disqualified the data because the onboard global positioning system failed.
- ^b Some monitoring time frames were sufficiently long enough to produce data useable for health-based assessments; however, the TCEQ determined that most time frames were too short. The monitor must be active for at least 30 minutes to 1 hour to be usable for health-based assessments.

Although the EPA's TAGA operation was primarily intended to screen for elevated air toxic concentrations, the data collected by this method were also compared against the TCEQ's short-term AMCV thresholds (described in Chapter 1) to make health-based assessments. Although the EPA, the TCEQ and the city of Houston assessed that the data indicated there was no concern—and subsequently issued a press release communicating this assessment to the public—we found that the TAGA's sampling time frame was too short to generate data that could accurately assess airborne toxin concentrations for making health-based assessments.¹³ In addition, we found that the data collected by the TAGA operation were not timely. Before the TAGA buses were activated by the EPA's Emergency Operations Center for Hurricane Harvey, they were parked in Las Vegas, Nevada, and Research Triangle Park, North Carolina. Their transit to the Houston area after they were activated impaired the timeliness of the data collection.

Entanglement Technologies supported the assessment of air quality following Hurricane Harvey's landfall by using a portable monitor from September 4 through 9, 2017. These data were submitted to the TCEQ and the city of Houston for review. However, the TCEQ concluded that the data were unsuitable for making health-based assessments because most air samples were collected over a period lasting fewer than 5 minutes. The EPA also conducted handheld monitoring in Manchester from September 3 through 8, 2017. However, this handheld monitoring collected data on only one air toxic (benzene), and no readings exceeded the method detection limit (effectively 0 parts per million [ppm]).

ASPECT data are intended only for screening purposes, as this monitoring method (i.e., remote sensing) does not provide sufficiently reliable data for health-

¹³ Short-term AMCVs require monitoring data to be averaged for a 30-minute to 1-hour period prior to comparing the data to the air quality thresholds. The TAGA monitoring method averages data for only 1–2 seconds.

based assessments. As a part of this screening process, the EPA dispatched follow-up ground monitoring units and established evacuation zones as necessary to protect human health when elevated pollutant concentrations were detected. This follow-up occurred, for example, on September 2, 2017, when the ASPECT detected benzoyl peroxide concentrations above the ASPECT's method detection limit.

EPA Lacked Guidance for Emergency Air Quality Monitoring Efforts

Emergency air monitoring efforts were initiated without a plan to help guide and coordinate governmental and nongovernmental efforts, including the minimum level of quality assurance needed to obtain data suitable for health-based assessments and how to effectively share data among all interested parties.

While many entities collected air monitoring data in the weeks following Hurricane Harvey's landfall, the data acquisition itself was not performed in a manner that would provide a holistic picture of air quality in the Houston region:

1. Despite efforts by Entanglement Technologies and the city of Houston to share information with the TCEQ, the TCEQ did not forward these raw datasets to the EPA. We also found no evidence that the EPA requested access to these data or that these data were shared with the public.
2. The raw data collected by the EPA via the TAGA were stored in the agency's Environmental Response Team Information Management System, a data repository that can only be accessed by the EPA team members.
3. The EPA's ASPECT flight data were retained in the Environmental Unit of the EPA's Office of Emergency Management, with the air toxic concentration values stripped from the dataset.
4. Although the EPA presented via press releases that some preliminary analyses of data were received, the raw data were never publicly distributed.

Ultimately, this isolation of raw data limited analysts' and the public's ability to perform monitoring data comparisons and make informed and comprehensive conclusions regarding the region's overall air quality.

Even if these monitoring datasets were housed in a central database that was accessible to all interested parties, the unique formatting of each dataset would have presented substantial challenges in terms of data interpretation. For example, the ASPECT's concentration values were split into 97 separate Excel spreadsheets. Furthermore, we found that concentration values were

inconsistently expressed using a range of units, such as parts per million, parts per billion, milligrams per cubic meter and micrograms per cubic meter.

Although EPA Region 6 and the TCEQ collaborate annually to plan and train for hurricanes, the EPA lacked both internal and external guidance on how to appropriately collaborate with others to collect, assess and store air quality data during extreme weather events or other emergency situations. A focus on air quality monitoring when planning for disasters in industrial cities like Houston would facilitate the timely, proper and collaborative use of alternative monitoring devices.

Conclusion

Overall, the EPA's lack of monitoring guidance and various technological limitations prevented nongovernmental organizations, local governmental entities and the EPA itself from monitoring air quality during the peak period of excess emissions due to Hurricane Harvey. Further, the monitoring data that were collected were not always useful for assessing potential impacts on human health. Additionally, inconsistent formatting and isolated storage of air monitoring data prevented the EPA, the public and other stakeholders from gaining a holistic understanding of air quality.

The EPA could better plan and coordinate future emergency response efforts with governmental and nongovernmental organizations to help ensure that the air quality in potentially high-risk areas is monitored during periods of elevated air toxic emissions. During the Hurricane Harvey response, high-risk areas were predominantly located adjacent to or near large industrial facilities. Increased planning and coordination could provide these communities with timely information about their air quality during an emergency, enabling them to take precautions to reduce their exposure to air toxics.

Recommendations

We recommend that the Assistant Administrator for Land and Emergency Management:

1. Develop general guidance to help state and local agencies and external stakeholders develop air monitoring plans for emergency situations in heavily industrialized areas so that usable data are collected in targeted areas of concern.
2. Develop, in coordination with the Associate Administrator for Public Affairs, a plan for providing public access to air monitoring data collected during an emergency response.

3. Coordinate with the Office of Research and Development and the Office of Air Quality Planning and Standards within the Office of Air to assess the availability and use of remote and portable monitoring methods to monitor air toxics when stationary monitoring methods are not available.

Agency Response and OIG Evaluation

The agency disagreed with our draft report recommendations for this chapter. The agency noted that each emergency is unique and that developing guidance that would cover all scenarios would be challenging. Further, per the agency's response, state and local governments are primarily responsible for emergency response efforts, with the EPA regions assisting when requested. The agency said that the EPA has developed a variety of tools and procedures for emergency assistance.

Based on discussions with the agency and its response to our draft report, we revised our recommendations for the final report to better clarify the recommendations. Recommendations 1 through 3 are unresolved pending the OIG's receipt of acceptable corrective action plans and proposed completion dates from the EPA in response to the final report.

The agency's response to our draft report and our additional comments are in Appendix A. The agency provided specific suggestions for our consideration, and we revised the report as appropriate.

Chapter 3

Data Did Not Indicate That Air Toxic Levels Were Exceeded, but Health Risks to Fenceline Communities from Emission Spikes Are Unknown

Although available monitoring data did not indicate that the levels of air toxics in the Houston area during the Hurricane Harvey disaster exceeded Texas' short-term AMCVs or the EPA's AEGLs,¹⁴ these thresholds do not consider the cumulative impact of being exposed to multiple pollutants. Instead, the thresholds are based on an individual exposed to one specific pollutant (e.g., benzene). Further, the EPA's thresholds do not consider chronic exposure that some populations, such as those residing near industrial facilities, may have already experienced. Consequently, emergency exposure thresholds may not be sufficiently protective of populations already experiencing chronic exposure to multiple air toxics.

EPA Used State Thresholds to Assess Houston's Air Quality

According to EPA staff, the agency coordinates with the relevant state when an incident occurs to determine which health-based thresholds to use when analyzing air monitoring results. A review of internal agency documents from September 5 and 6, 2017, showed that there was confusion among EPA staff regarding whether to use the TCEQ's short-term AMCVs or other TCEQ thresholds. Ultimately, the TCEQ decided that the EPA should use the AMCVs after discussing the issue with the federal agency. The TCEQ and the EPA subsequently compared air monitoring data collected from various handheld monitors, summa canisters, ASPECT and the TAGA bus to the AMCVs. The TCEQ also compared data collected by the city of Houston to the AMCVs. None of the data were found to exceed the AMCVs.

Relative to the EPA's Level 2 and Level 3 AEGLs,¹⁵ the EPA's Level 1 AEGL thresholds most closely match the short-term AMCV thresholds, although the differences between these threshold categories are substantial and their underlying purposes are different. Short-term AMCVs were developed by the TCEQ to

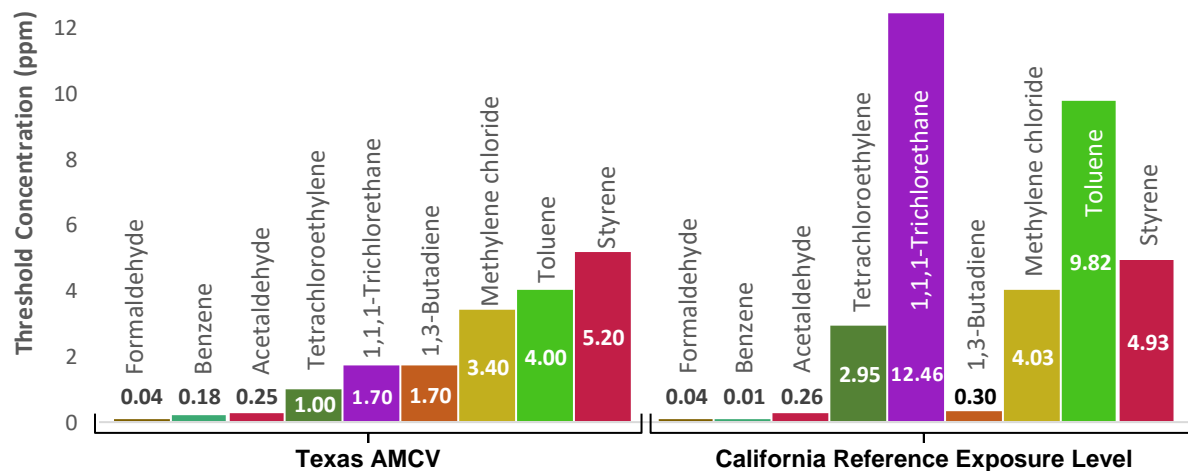
¹⁴ As described earlier in the "Scope and Methodology" section, the TCEQ's short-term AMCVs are used to evaluate air quality averaged over short time frames (e.g., 30 minutes to 1 hour). The EPA's AEGLs describe the human health effects from rare exposure to airborne chemicals and are generally used by emergency responders when dealing with chemical spills or other catastrophic exposures.

¹⁵ AEGLs, which address the acute (or short-term) effects of air toxics, are established at three levels, with each level representing the severity of health impacts. Level 1 is the lowest impact level and represents the airborne concentration above which notable discomfort or irritation could be experienced, but the effects are not disabling and are reversible once exposure stops. Level 2 is the middle impact level and represents the exposure level at which irreversible harm; other serious, long-lasting adverse health effects; or an impaired ability to escape are caused. Finally, a Level 3 exposure causes life-threatening health effects or death.

screen air quality in more general, day-to-day situations, while AEGLs were developed by the EPA to screen situations involving a once-in-a-lifetime, accidental exposure. As an example of the difference between these thresholds, the AEGL Level 1 short-term (30 minutes and 60 minutes) thresholds for 1,3-butadiene is 670 ppm versus the short-term AMCV threshold of 1.7 ppm. Thus, the use of short-term AMCVs as health-based thresholds for assessing air quality data after Harvey was more conservative—in other words, protective of health—than if AEGLs were used.

However, the use of state thresholds to assess adequate margins of safety could lead the EPA to endorse different conclusions regarding public safety when air quality conditions are similar. For example, Figure 7 shows the differences in common air quality thresholds issued by Texas and California.

Figure 7: Comparison of Texas and California air quality threshold levels



Source: OIG analysis.

This lack of standardization in state air toxic thresholds could cause the EPA to provide inconsistent advice as it supports local entities in disasters. For example, using California's air quality thresholds, the EPA could advise local governments in that state to issue a shelter-in-place order if monitoring results showed a benzene concentration of 0.1 ppm. That same concentration, however, would not have triggered any health advisories during the Hurricane Harvey response, since the Texas' short-term AMCVs have a higher threshold for benzene.

Monitoring Thresholds Do Not Consider Exposure to Multiple Pollutants

Studies have shown that fenceline communities are exposed to a heavy daily load of multiple pollutants beyond SSM emissions. For example, the Houston Mayor's Task Force on Health Effects of Air Pollution found that the communities in East Houston, which includes the Harrisburg/Manchester neighborhood, are exposed to more high-risk pollutants than other Houston communities. In East Houston,

90 percent of the census tracts face four or more “definite-risk” pollutants,¹⁶ while one tract in the Harrisburg/Manchester neighborhood faces seven definite-risk pollutants. Of the greater Houston census tracts exposed to six or more definite-risk pollutants, half of them are in East Houston. These figures suggest that these communities—given their cumulative exposure to multiple definite-risk pollutants—face a higher lifetime risk of cancer and chronic disease than other Houston communities exposed to only one or two definite-risk pollutants.

During Hurricane Harvey, these East Houston communities faced exposures to many pollutants at one time. Within a 3-hour period, the city of Houston’s Mobile Ambient Air Monitoring Laboratory identified 46 pollutant concentrations greater than 0 ppm occurring in Manchester Park on September 4, 2017, including benzene (0.008 ppm), n-hexane (0.096 ppm) and n-heptane (0.072 ppm). While none of these concentrations exceeded their respective short-term AMCVs, this example illustrates the large number of distinct pollutants in the air at that time.



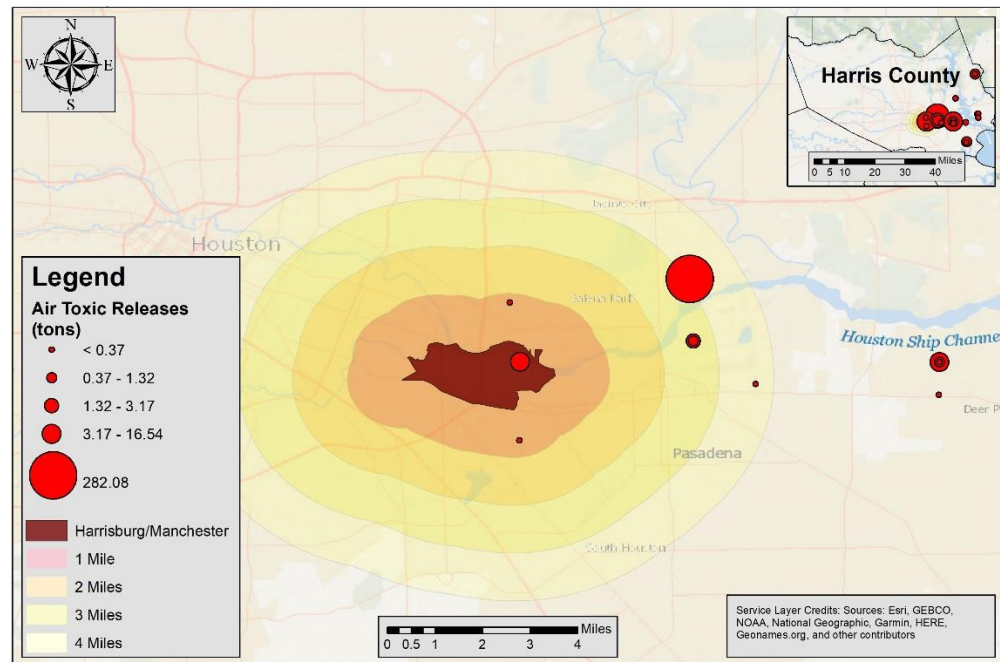
Houston’s Mobile Ambient Air Monitoring Laboratory. (City of Houston photo)

One limitation to using the AMCVs or AEGLs to assess health risks during an emergency response is that neither one accounts for the following situations that could potentially impact health:

- Concurrent exposure to multiple air pollutants (i.e., *cumulative* exposure).
- Accumulation of consecutive distinct exposures to a pollutant over time (i.e., *aggregated* exposure).

As Figure 8 shows, when compared to the rest of Harris County, a disproportionate amount of air toxic emissions reported for Hurricane Harvey were within 4 miles of the Harrisburg/Manchester neighborhood. These residents were potentially exposed to a variety of air toxics, such as xylene, toluene, hexane and ethylbenzene. However, the TCEQ only tracks these incidents and assesses the air toxics’ health effects at certain exposure levels on a pollutant-by-pollutant basis; there is no way of quantifying potential effects across the AMCV or AEGL standards.

¹⁶ The task force defined *definite-risk pollutants* as “those substances for which there was compelling and convincing evidence of significant risk to the general population or vulnerable subgroups at current ambient concentrations.” The following 12 air pollutants were classified as definite risks: ozone; fine particulate matter (PM 2.5); diesel particular matter; 1,3-butadiene; chromium VI; benzene; ethylene dibromide; acrylonitrile; formaldehyde; acrolein; chlorine; and hexamethylene diisocyanate.

Figure 8: Known emissions near Harrisburg/Manchester during Hurricane Harvey

Source: OIG analysis using Esri's ArcMap.

The EPA's guidance on the development of AEGLs only relies on multiple exposure studies when single exposure data are lacking. AEGLs may therefore not be protective enough of disproportionately burdened communities like Harrisburg/Manchester, given their proximity to large industrial facilities and the number of air toxics they could be exposed to during large-scale SSM incidents before, during and after an emergency or disaster situation. Although AEGLs were not used to make public health assessments after Hurricane Harvey, with the exception of California, no other states have developed acute air toxic thresholds like Texas. The other states may therefore opt to use AEGLs to assess air quality.

Based on a review of TCEQ guidance, we determined that cumulative risks from multiple pollutant exposures are not addressed in AMCVs. While short-term AMCVs are more protective of health than AEGLs when assessing exposure to a single air toxic, whether these values were sufficiently protective of health is unknown, considering the multiple pollutant exposures experienced after Hurricane Harvey.

Conclusion

The available monitoring data did not indicate that air toxic levels during the Hurricane Harvey disaster exceeded Texas or EPA thresholds. It is unclear, however, whether or how SSM emissions compound the health risks of residents in fenceline communities. Short-term AMCVs and other risk-based thresholds used by the EPA and the TCEQ to assess the risk of emissions during Hurricane Harvey

do not account for communities that are exposed—daily and/or over the long-term—to multiple pollutants and chronic daily exposures in addition to spikes from large-scale SSM events.

Recommendation

We recommend that the Region 6 Regional Administrator:

4. Develop and implement, in coordination with the states, a plan to inform residents in fence-line and nearby communities about adverse health risks resulting from multiple facility startups and shutdowns during emergencies and to limit these residents' exposure to air toxics.

Agency Response and OIG Evaluation

In this chapter in our draft report, we included one recommendation addressing the use of acute exposure thresholds to assess air quality during an emergency. The agency disagreed with this recommendation and noted that there are existing air quality standards that the EPA uses to estimate the risks to communities for criteria air pollutants. The agency further explained that the EPA uses its AEGLs to assess public risk from air toxics exposure.

Our draft report also included two additional recommendations in this chapter addressing how to limit the potential health impact of multiple shutdowns and startups on nearby residents during an emergency. The agency noted that neither the EPA nor the states have authority over facilities' SSM schedules. The agency stated that the EPA coordinates with local officials, states and tribes regarding shelter in place, evacuations or other protective measures for fence-line and nearby communities.

Based on discussions with the agency, its response to our draft report, and internal management discussions, we developed one recommendation for this chapter in our final report (Recommendation 4).

Recommendation 4 is unresolved pending the OIG's receipt of an acceptable corrective action plan and proposed completion date from the agency in response to our final report. The agency's response to our draft report and our additional comments are in Appendix A. The agency provided specific suggestions for our consideration, and we revised the report as appropriate.

Chapter 4

Lack of Communication Left Communities Unaware of Risks

We did not identify any instances of inaccurate communication regarding air quality during the Hurricane Harvey response effort. However, we found that official communication from the EPA regarding air quality was limited. For example, a lack of guidance regarding how the EPA should disseminate air quality data meant air monitoring results and air quality risks did not always reach residents of impacted communities. In addition, the lack of a feedback mechanism meant field staff did not communicate how the EPA resolved residents' concerns. As a result, some communities were left unaware of important issues, which can lead to a lack of trust and confidence in the EPA's actions and findings.

Guidance Outlines Community Engagement During an Incident

Pursuant to EPA Order 2010, *Crisis Communication Plan (CCP)*, the agency's Public Information Officers must consider five factors when communicating with the public during an emergency:

1. Community engagement.
2. Language access.
3. Environmental justice.
4. Environmental data.
5. EPA authority.

In addition, the EPA's CCP states that information provided to the public during an incident must be understandable, timely, accurate and consistent. Further, the CCP stresses the following points:

- The agency will widely disseminate information concerning EPA activities to the public.
- Information should be developed in languages other than English under the Commitment to Language Access Obligations in Executive Order 13166.
- The agency will develop information to address environmental justice as prescribed by EPA Memorandum, *Incorporating Environmental Justice Considerations into EPA Disaster Preparedness and Response Procedures*, issued November 2, 2006.

Some EPA offices have incorporated environmental justice into their office-specific guidance about risk communication, which the EPA defines as the

“process of informing people about potential hazards to their person, property, or community.” For example, the EPA’s Office of Research and Development produced the *Risk Communication Workbook*, which explains that risk communication must “transcend barriers of literacy, language, and ethnicity to ensure acceptance or understanding.” An Office of Research and Development document regarding risk communication during water security emergencies warns that poor risk communication “can ... undermine public trust and confidence” and that the goal should be to “enhance knowledge and understanding [and] build trust and credibility.” The EPA Superfund program’s risk communication guidance emphasizes that individuals perceive risk differently depending on different factors of the risk,¹⁷ including voluntariness, controllability, familiarity, fairness, catastrophic potential, reversibility, equity and effects on children.

EPA Deployed Community Liaisons

EPA Region 6 deployed more than 80 community liaisons to the region impacted by Hurricane Harvey—the first instance in which so many liaisons were used by the agency to respond to a disaster, according to an EPA staff person. These liaisons, who were coordinated by three leaders, provided information to the public regarding how to best protect themselves from environmental risks, collected citizen concerns, and forwarded these concerns to EPA management. The liaisons were not tasked with resolving environmental issues.

During the Hurricane Harvey response effort, the EPA’s community liaisons communicated with the public by distributing preapproved flyers, which were available in English, Spanish and Vietnamese. The community liaisons held daily meetings with the community liaison lead¹⁸ and maintained a dedicated

environmental justice email address that the community could use. During our audit, we received feedback from the community that the liaisons in the Port Arthur/Beaumont area were present and played an active role.



EPA community liaison providing information in Houston. (EPA photo)

¹⁷ The EPA’s Superfund program addresses the nation’s most contaminated sites and responds to environmental emergencies and natural disasters.

¹⁸ This individual was located in the Region 6 office in Dallas and provided updates to senior management regarding the work of the liaisons on the ground.



From left: English, Spanish and Vietnamese versions of EPA flyers regarding debris management. (EPA photo)

Residents Were Not Informed How EPA Resolved Their Concerns

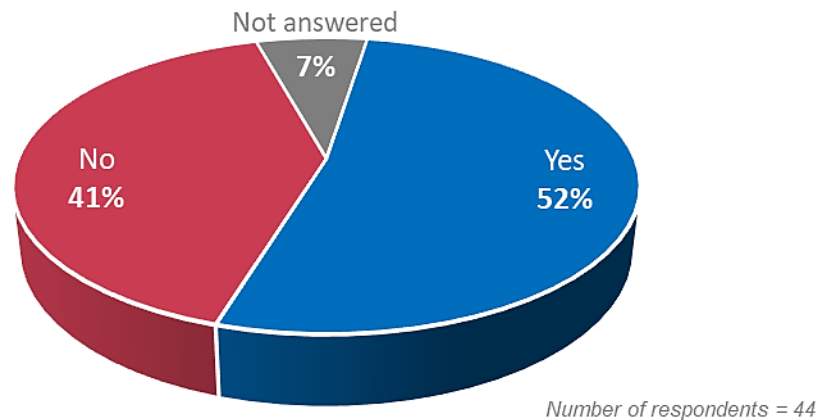
Despite concerns about air quality and other issues in the Houston area after Hurricane Harvey, the EPA did not adequately communicate important information so that all impacted communities received it. A lack of information hindered residents' ability to make informed and independent decisions to protect their health.

Residents Expressed Concerns about Health Impacts of Hurricane Harvey

The public expressed concern about the health effects related to the hurricane's impact on the community, including drinking water quality and air quality issues. As shown in Figure 9, over half of the 59 EPA staff who served as community liaisons and responded to an OIG survey stated that outdoor air quality was a concern to the community. These staff cited odors, safety, fires or hazardous air emissions from facilities as community concerns.



An aerial view of the flooding caused by Hurricane Harvey in Houston on August 31, 2017. (U.S. Department of Defense photo)

Figure 9: Community liaison survey results—outdoor air quality concerns**Did the community have outdoor air quality concerns?*

Source: OIG survey analysis.

* This chart is based on the perspectives of EPA's community liaisons.

The city of Houston also received public expressions of outdoor air quality concerns after Hurricane Harvey via the city's 311 hotline. For example, the city received 33 odor complaints from August 27 through September 17, 2017. Many of these complaints pertained specifically to odors emanating from refineries in the Ship Channel area.

In addition, a few nongovernmental organizations requested air quality data from the EPA. One of these nongovernmental organizations had contacts living in affected communities who could reach the impacted constituency. However, the EPA was not responsive to requests from nongovernmental organizations for air quality data.

Resolution of Concerns Not Communicated to Affected Residents

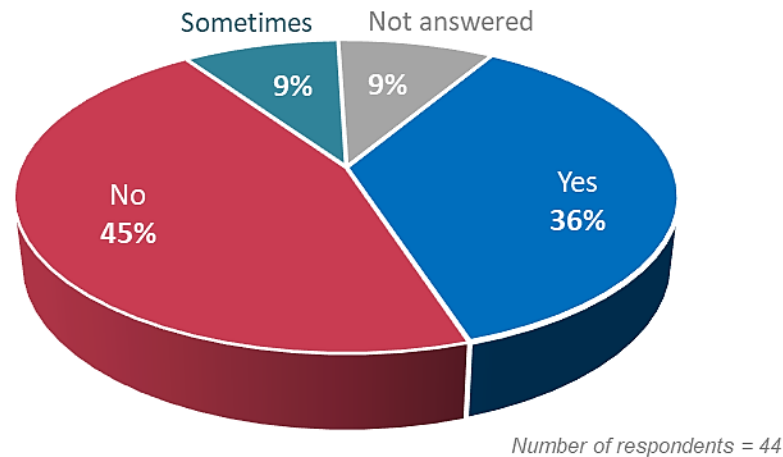
The EPA lacked a process for providing feedback to the community after residents' concerns were considered resolved or addressed. While response activities were communicated daily to EPA headquarters via written reports, community liaisons and field staff reported in the EPA's post-hurricane surveys that this information was not being relayed to field teams and that they were not informed whether problems were resolved. For example, one community liaison who communicated an incident at a local refinery up the established chain of command subsequently asked about the health risks from that incident and about the resolution status. That community liaison told the OIG that the only response received from the chain of command was that the TCEQ was taking care of the situation. The community liaison expressed concern about the community and whether it was exposed to health risks from the incident.

Over half of the community liaisons who responded to our survey reported hearing about air quality concerns in communities, but about half also said that

the EPA did not address or only sometimes addressed the concerns they submitted in their daily reports (Figure 10).

Figure 10: Community liaison survey results—EPA management responsiveness*

Was EPA management responsive to community concerns?



Source: OIG survey analysis.

* This chart is based on the perspectives of EPA's community liaisons. Numbers do not add to 100 percent due to rounding.

According to the survey respondents and EPA staff we interviewed, community concerns were passed up the EPA's chain of command and were then forwarded to the governmental party responsible for resolving the issue (e.g., air quality concerns were forwarded to the TCEQ). Once the relevant party was notified, the EPA considered the matter "closed." Region 6 staff from the Office of Environmental Justice and Tribal Affairs did conduct outreach with local government officials and community organizations;¹⁹ however, some community liaisons reported that information about how issues were resolved was lacking. In addition, after the EPA referred an issue, the EPA's process did not include following up to confirm resolution of the issue and communicating that resolution to the concerned party.

Environmental Justice Not Adequately Addressed in Emergency Response Implementation

According to the Office of Emergency Management's *2017 Hurricane and Wildfire Response After-Action Report*, environmental justice considerations were not adequately integrated into the Incident Command System structure. The report recommended integrating environmental justice considerations, "such as through coordination with nongovernmental organizations to maintain awareness of their concerns," into the CCP.

¹⁹ In the March 2019 Region 6 realignment, this office became the Office of Communities, Tribes and Environmental Assessment.

EPA-conducted questionnaires, our survey and our interviews with community members indicated a lack of knowledge on behalf of the EPA about the needs of the Houston region's various communities and how best to reach them. This knowledge is especially critical for community liaisons to effectively communicate with environmental justice communities. For example, community liaisons should have experience with these communities so that the liaisons can address the cultural differences, communication barriers and geographical challenges that make some of these communities hard to reach. Knowing when and where communities gather is also important to effectively communicate and distribute essential information.

We also identified some concern among regional staff and managers that information did not reach all environmental justice communities. Some residents were not aware of the EPA's presence in these communities. Although community liaisons were deployed into affected communities, we confirmed with some community members that they never saw a community liaison in their neighborhoods after Hurricane Harvey. In addition, many community liaisons and organizations expressed concern about the lack of printed materials in languages other than English that are spoken prevalently in the Houston area.

Conclusion

Based on the results of our review, some residents impacted by Hurricane Harvey were unaware of air monitoring results and air quality risks during and immediately after the hurricane. The EPA has limited guidance on how to disseminate air quality data and lacks a feedback mechanism allowing EPA field staff to communicate the status of concerns to affected communities.

These challenges led to limited public awareness of potential air quality issues, which in turn could reduce public trust and confidence in the government's actions in response to an emergency. Given the number of impacts of the hurricane—including flooding, loss of power and the fear naturally instigated by a natural disaster—unaddressed concerns regarding air quality likely compounded the public perception of risks.

Recommendations

We recommend that the Associate Administrator for Public Affairs:

5. Revise the EPA's *Crisis Communication Plan* to include a communication process to inform affected communities about the resolution of community concerns raised during an emergency.

We recommend that the Region 6 Regional Administrator:

6. Conduct environmental justice training for community liaisons and Incident Command System staff, thereby fulfilling that element of the EPA's *Crisis Communication Plan*.

Agency Response and OIG Evaluation

The agency concurred with Recommendations 5 and 6 and provided acceptable planned corrective actions and completion dates. To address Recommendation 5 (Recommendation 7 in our draft report), the EPA's Office of Public Affairs plans to update the agency's CCP. In an email to the OIG dated December 3, 2019, the agency clarified that its update to the CCP will include a communication process to inform affected communities about the resolution of community concerns raised during an emergency. To address Recommendation 6 (Recommendation 9 in our draft report), Region 6 will provide annual environmental justice training to all EPA Region 6 employees, including emergency response personnel. The EPA will also provide training to community involvement core team, Incident Command staff and other appropriate community liaisons consistent with the EPA's CCP. Recommendations 5 and 6 are considered resolved with corrective actions pending.

The agency's response to our draft report and our additional comments are in Appendix A. The agency provided specific suggestions for our consideration, and we revised the report as appropriate.

Status of Recommendations and Potential Monetary Benefits

RECOMMENDATIONS							Potential Monetary Benefits (in \$000s)
Rec. No.	Page No.	Subject	Status ¹	Action Official	Planned Completion Date		
1	21	Develop general guidance to help state and local agencies and external stakeholders develop air monitoring plans for emergency situations in heavily industrialized areas so that usable data are collected in targeted areas of concern.	U	Assistant Administrator for Land and Emergency Management			
2	21	Develop, in coordination with the Associate Administrator for Public Affairs, a plan for providing public access to air monitoring data collected during an emergency response.	U	Assistant Administrator for Land and Emergency Management			
3	22	Coordinate with the Office of Research and Development and the Office of Air Quality Planning and Standards within the Office of Air to assess the availability and use of remote and portable monitoring methods to monitor air toxics when stationary monitoring methods are not available.	U	Assistant Administrator for Land and Emergency Management			
4	27	Develop and implement, in coordination with the states, a plan to inform residents in fenceline and nearby communities about adverse health risks resulting from multiple facility startups and shutdowns during emergencies and to limit these residents' exposure to air toxics.	U	Region 6 Regional Administrator			
5	33	Revise the EPA's <i>Crisis Communication Plan</i> to include a communication process to inform affected communities about the resolution of community concerns raised during an emergency.	R	Associate Administrator for Public Affairs	12/30/20		
6	34	Conduct environmental justice training for community liaisons and Incident Command System staff, thereby fulfilling that element of the EPA's <i>Crisis Communication Plan</i> .	R	Region 6 Regional Administrator	9/20/20 and annually thereafter		

¹ C = Corrective action completed.
R = Recommendation resolved with corrective action pending.
U = Recommendation unresolved with resolution efforts in progress.

Appendix A

Agency Response to Draft Report

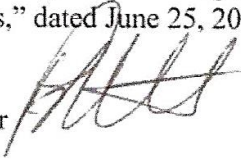
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

SEP 6 2019

OFFICE OF
LAND AND EMERGENCY
MANAGEMENTMEMORANDUM

SUBJECT: Response to Office of Inspector General Draft Report No. OA&E FY18 0266 "EPA Needs to Improve Its Emergency Planning to Better Address Air Quality Concerns During Future Disasters," dated June 25, 2019

FROM: Peter C. Wright
Assistant Administrator 

TO: Charles J. Sheehan, Acting Inspector General
Office of Inspector General

Thank you for the opportunity to respond to the issues and recommendations in the subject audit report. Following is a summary of the agency's overall position, along with its position on each of the report recommendations. For those report recommendations with which the agency agrees, we have provided high-level intended corrective actions and estimated completion dates to the extent we can. For those report recommendations with which the agency does not agree, we have explained our position, provided the legal basis, and proposed alternatives to recommendations. For your consideration, we have included a Technical Comments attachment to supplement this response.

AGENCY'S OVERALL POSITION

The report seems to make broad conclusions applicable to the Agency and several national programs based on the limited review of one event in which flooding was the primary focus of the response. Instead, a review of the Region 9 response to the Kilauea volcanic activity in Hawaii, as an extended response intensively focused on air monitoring, would provide a better overall picture of EPA's existing processes, capabilities, and thorough coordination with state and local agencies.

In general, the Agency does not agree with nor advise developing overarching monitoring guidance for emergency responses - beyond what already exists. First, states and local governments are responsible for their emergency response efforts. If federal assistance is requested, or EPA receives a mission assignment from FEMA, the response is handled by the particular EPA Region. Each emergency is unique, as are the associated responses. Overarching

guidance for monitoring that would encompass the myriad emergency scenarios that could possibly occur would be challenging. Decisions regarding monitoring are made based on an evaluation of the specific incident. Further, in Region 6, all states have State Implementation Plans (SIP)-approved authority to permit planned startup, shutdown and maintenance (SSM) emissions for most facilities. EPA only approves state permitting regulations. EPA can, and does, also enforce these permits, SIP required conditions, and National Emission Standards for Hazardous Air Pollutants. Current regulations do not allow the state or EPA to dictate SSM schedules.

We understand from our discussions that we can propose alternatives for the draft recommendations, and we have provided suggestions in the “Disagreements” table below. In general, we propose to:

1. remove the Office of Air and Radiation as an action official from the recommendations,
2. combine recommendations 2 and 8,
3. combine recommendations 5 and 6,
4. exclude the term “implement” in the revised recommendations,
5. assume that “develop guidance” includes the option to incorporate the requested provisions into existing guidance or other appropriate document(s), and
6. focus the revisions on monitoring related to permitted and non-permitted air toxic releases during an emergency event rather than hazardous air pollutants covered by SIPs.

This response and these revisions have been coordinated with the Office of Air and Radiation, the Office of Public Affairs, and EPA Region 6.

AGENCY'S RESPONSE TO REPORT RECOMMENDATIONSAgreements

No.	Recommendation	High-Level Intended Corrective Action(s)	Estimated Completion by Quarter and FY
7	(OPA) Revise the EPA's Crisis Communication Plan to include a communication process to inform affected communities about the resolution of community concerns raised during an emergency.	7.1 Update Crisis Communications Plan	1 st Quarter FY 2020, December 30
<p>OIG Response #1: The agency concurred with the recommendation and provided a planned corrective action and completion date. In an email to the OIG dated December 3, 2019, the agency clarified that its update to the CCP will include a communication process to inform affected communities about the resolution of community concerns raised during an emergency. We consider this recommendation—which is Recommendation 5 in the final report—resolved with corrective actions pending.</p>			
9	(Region 6) Conduct environmental justice training for community liaisons and Incident Command System staff, thereby fulfilling that element of the EPA's Crisis Communication Plan.	9.1 Continue to provide annual EJ training to all EPA Region 6 employees including emergency response personnel. EPA will consider adding a module to emphasize environmental justice communications during emergency response.	4 th Quarter FY 2020 September 30, and annually thereafter
		9.2 Provide training to community involvement core team, Incident Command staff, and other appropriate community liaisons consistent with EPA's Crisis Communication Plan.	3 rd Quarter FY 2020, June 30
<p>OIG Response #2: The agency concurred with the recommendation and provided planned corrective actions and completion dates. Specifically, the agency's corrective action number 9.2 addresses the recommendation. This recommendation, which is Recommendation 6 in the final report, is resolved with corrective actions pending.</p>			

Disagreements

No.	Recommendation	Agency Explanation/Response	Proposed Alternative
1	(OLEM) Develop and implement ambient air quality monitoring guidance for emergency responses	Air monitoring during a response is individualized and highly dependent upon the unique characteristics of the incident. Overarching guidance for monitoring encompassing the myriad emergency	(OLEM) In order to collect useable data and target concerns during an emergency response develop guidance (e.g, job

	in heavily industrialized areas. This guidance should address, at a minimum, how to select monitoring locations, duration, timing and methods depending on the intended use of the data.	scenarios that could possible occur is not feasible. Decisions regarding monitoring are made based on an evaluation of the specific incident. For example, circumstances such as flooded streets, power outages, accessibility to facilitate/sites, or personnel safety, would dictate what could/could not be done.	aid) to assist state, local and tribal agencies; industry; and the affected public in developing air monitoring plans in heavily industrialized areas during an emergency.
<p>OIG Response #3: Our report recognizes the individual nature of each emergency response. Our intent was not to recommend that the EPA develop prescriptive guidance to cover all potential situations; rather, our intent was to recommend that the EPA develop general guidance to help state and local agencies, as well as nongovernmental organizations, develop their emergency monitoring plans. In discussions with the agency, we agreed on alternative language for Recommendation 1 and revised it for the final report. This recommendation is unresolved pending receipt of a correction action plan and proposed completion date from the EPA.</p>			
2	(OLEM) Develop and implement a method for storing and providing public access to ambient air monitoring data collected during an emergency response.	EPA has several existing tools and procedures such as SCRIBE, Viper, Common operation Picture, and story maps. Emergency Response Team Sampling guidelines can be found at: https://nepis.epa.gov/Exe/ZyPDF.cgi/2000FZYG.PDF?Dockey=2000FZYG.PDF	(OLEM/OPA) Develop a method for storing and providing public access to air monitoring data during an emergency response.
<p>OIG Response #4: Viper, a wireless network-based communications system, was not used to distribute raw air monitoring data to the public during the agency's response to Hurricane Harvey and still has not been used to retroactively provide this information. This tool also lacks user-friendly features that would allow members of the public to easily identify and extract information relevant to their exposures or interest level. The remaining tools that the EPA mentions in its response also do not adequately address our concerns or resolve our recommendation, because the tools only provide summary-level information or require the installation of complex software onto the user's computer. Based on discussions with the agency, we developed alternative language for Recommendation 2 and revised the recommendation for the final report. This recommendation is unresolved pending receipt of a correction action plan and proposed completion date from the EPA.</p>			
3	(OLEM) Test and evaluate the use of low-cost air monitors throughout fenceline communities to monitor air toxics and other air pollutants during emergency situations when state and local air	If pre-event monitoring systems are rendered non-operational by an emergency conditions, EPA uses screening level tools (TAGA, ASPECT) to pinpoint areas of concern for further, targeted air monitoring.	(OLEM) To improve the availability of air monitoring immediately post-event, incorporate into existing procedures coordination with ORD and OAQPS to assess the availability and use of remote and portable monitoring methods to

	monitoring systems and networks are not operational.		monitor air toxic when stationary methods are not available.
<p>OIG Response #5: The screening-level tools cited by the agency are all described in our report. In discussions with the agency, we came to an agreement on alternative language for Recommendation 3 and revised the recommendation for the final report. This recommendation is unresolved pending receipt of a corrective action plan and proposed completion date from the EPA.</p>			
4	(OLEM/OAR) Identify and standardize the use of appropriate health-based ambient air quality thresholds in communities during emergency responses.	There are already existing air quality standards [National Ambient Air Quality Standards (NAAQS)]. They do not change during emergency responses. During a response, if we detect a specific contaminant of concern, we go to the existing acute values for that chemical in order to estimate risk to communities. These values already exist (e.g., AEGLs) and indicate the concentrations at which public health impacts may occur for a particular chemical hazard. In the rare instance that there is no established value for a particular substance, one is developed based on existing data or by using existing tools to estimate toxicity. This is done in coordination with entities such as EPA's ORD, ATSDR, and other experts in toxicology and risk assessment. AEGLs are expressed as specific concentrations of airborne chemicals at which health effects may occur. They are designed to protect the elderly and children, and other susceptible populations.	Remove OAR and revise recommendation to read: (OLEM) In the absence of federal acute exposure thresholds (AEGL standards) for air toxics and to avoid delays in assessing the potential health impacts of concentrations detected during an emergency, incorporate into existing preparedness guidance the requirement for Regions to coordinate with states to identify the air pollutant standards for making decisions about public health impacts from potential toxic air emissions.
<p>OIG Response #6: We recognize that there are existing air quality standards for criteria air pollutants, but there are no federal air quality standards for air toxics. We also acknowledge that the EPA developed the AEGLs for assessing public health risk from exposure to air toxics during an emergency. However, the AEGLs do not account for cumulative or aggregated exposures to airborne chemicals, meaning the AEGLs may not be sufficiently protective of sensitive communities. Additionally, Texas developed its own acute exposure thresholds, and a key decision during the Hurricane Harvey response was whether to use the state or EPA thresholds as action levels. Our report does not question the selection of the thresholds used for the response. After further discussions with the agency and among OIG management, we have withdrawn this recommendation.</p>			
5	(Region 6) Assess the potential for adverse health risks to residents living near industrial areas from	Current regulations do not allow the state or EPA to dictate SSM schedules. Public health evaluations are the responsibility of department of Health and Human Services, not EPA. EPA can provide air	(Region 6) SSMs are governed by state and federal regulations which are already designed to limit emissions including

	<p>increased [startup, shutdown and maintenance] SSM emissions during emergencies</p>	<p>monitoring data to support HHS analysis, as needed. EPA’s emergency responses are undertaken to protect human health and the environment from immediate threats posed by discharges and hazardous substance releases resulting from a natural disaster. These responses follow statutes, regulations, policy, guidance, which provide for coordination with other federal agencies and state, tribal and local response agencies. For fenceline and nearby communities, EPA coordinates with local officials, states and tribes regarding shelter in place, evacuations, or other protective measures.</p>	<p>during emergencies. During an emergency, air quality concerns are addressed through monitoring using established acute values (e.g. AEGLs) for the chemicals of concern, in order to estimate risk to communities. EPA’s enforcement program also evaluates facility operations and takes enforcement actions as needed when violations occur.</p>
<p>OIG Response #7: We understand that the EPA cannot dictate when a facility should shut down or start up in response to an emergency and that characterizing the risk from these exposures is difficult. However, a public health concern during the Hurricane Harvey response was the potential health impact of residents’ exposure to air toxics from multiple facility SSMs during a condensed time period. We therefore believe that Region 6 should develop a strategy, in coordination with its states, to limit fenceline communities’ exposures in heavily industrialized areas during future emergencies. Based on discussions with the agency, we revised and combined two draft report recommendations (Recommendations 5 and 6) into one final recommendation (Recommendation 4). The final report recommendation is unresolved pending receipt of a corrective action plan and proposed completion date from the EPA.</p>			
<p>6</p>	<p>(Region 6) Develop and implement a plan for limiting air toxic exposures in fenceline and other nearby communities from startup, shutdown and malfunction emissions during a large-scale emergency.</p>		<p>Delete this recommendation and combine with #5.</p>
<p>OIG Response #8: See OIG Response #7.</p>			

8	Develop and implement a strategy for public dissemination of air quality data.	See OLEM response to recommendation #2.	Delete this recommendation and incorporate into #2
OIG Response #9: Based on our discussions with the agency, we agreed that Recommendations 2 and 8 in the draft report were similar and could be combined into one recommendation. We therefore deleted draft Recommendation 8 and made minor revisions to Recommendation 2 for the final report. See OIG Response #4.			

CONTACT INFORMATION

If you have any questions regarding this response, please contact Reggie Cheatham, Director, of the Office of Emergency Management at Cheatham.Reggie@epa.gov or (202) 564-8003 or Becki Clark, Deputy Director, of the Office of Emergency Management at Clark.Becki@epa.gov or (202) 564-3818.

Attachment - Technical Comments

cc: Anne Idsal, OAR
 Nancy Grantham, OPA
 Ken McQueen, Region 6
 Reggie Cheatham, OEM
 Kevin Christensen, OIG
 James Hatfield, OIG
 Gabrielle Fekete, OIG

Appendix B***Distribution***

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and Radiation
Audit Follow-Up Coordinator, Region 6

Exhibit C

division of costs amongst consortia and individual manufacturers, please see the Fees Rule Unit III.J, Multiple Parties Subject to Fee Obligation (Ref. 1).

C. How can I access the final list?

The final list of manufacturers that will be subject to the Fees Rule for EPA-initiated risk evaluations under section 6 of TSCA can be found at docket number EPA-HQ-OPPT-2019-0677 at <http://www.regulations.gov> and on EPA's website at <http://www.epa.gov/TSCA-fees>.

III. Public Comments on Preliminary Lists and EPA Responses

EPA received public comments from 78 entities on the preliminary lists. As a general matter, many of the comments raised questions asking further clarification of what constitutes a byproduct or article; requesting a de minimis exemption; etc. The Agency responded to the questions by communicating directly with individual stakeholders, hosting conference calls with stakeholders, participating in webinars for stakeholders, improving web content, and adding Frequently Asked Questions to the EPA web page at <https://www.epa.gov/tsc-fees/frequent-questions-about-tsc-fees-epa-initiated-risk-evaluations>.

IV. References

The following is a listing of the documents that are specifically referenced in this document. The docket includes these documents and other information considered by EPA, including documents that are referenced within the documents that are included in the docket, even if the referenced document is not physically located in the docket. For assistance in locating these other documents, please consult the technical person listed under **FOR FURTHER INFORMATION CONTACT**.

1. EPA. Fees for the Administration of the Toxic Substances Control Act. **Federal Register**. (83 FR 52694, October 17, 2018) (FRL-9984-41).
2. EPA. High-Priority Substance Designations Under the Toxic Substances Control Act (TSCA); Notice of Availability. **Federal Register**. (84 FR 71924, December 30, 2019) (FRL-10003-15).
3. EPA. Initiation of Prioritization Under the Toxic Substances Control Act (TSCA); Notice. **Federal Register**. (84 FR 10491, March 21, 2019) (FRL-9991-06).
4. EPA. Proposed High-Priority Substance Designations Under the Toxic Substances Control Act (TSCA); Notice of Availability and Request for Comment. **Federal Register**. (84 FR 44300, August 23, 2019) (FRL-9998-29).
5. EPA. Preliminary Lists Identifying Manufacturers Subject to Fee Obligations for EPA-Initiated Risk Evaluations Under

Section 6 of the Toxic Substances Control Act (TSCA): Notice of Availability and Request for Comment. **Federal Register**. (85 FR 4661, January 27, 2020) (FRL-10003-14).

6. EPA. Preliminary Lists Identifying Manufacturers Subject to Fee Obligations for EPA-Initiated Risk Evaluations Under Section 6 of the Toxic Substances Control Act (TSCA): Notice of Availability and Request for Comment; Extension of Comment Period. **Federal Register**. (85 FR 14677, March 13, 2020) (FRL-10006-03).

7. EPA. Preliminary Lists Identifying Manufacturers Subject to Fee Obligations for EPA-Initiated Risk Evaluations Under Section 6 of the Toxic Substances Control Act (TSCA): Notice of Availability and Request for Comment; Extension of Comment Period. **Federal Register**. (85 FR 32036, May 28, 2020) (FRL-10010-37).

8. EPA. List of Final Manufacturers for all 20 High Priority Substances. August 2020

9. EPA. List of Manufacturers Who Certified as Ceasing Manufacture. August 2020.

10. EPA. "No Action Assurance Letter" of March 24, 2020.

11. EPA. List of Manufactures Who Self-Identified as "No Manufacture". August 2020.

Authority: 15 U.S.C. 2625.

Andrew Wheeler,
Administrator.

[FR Doc. 2020-19668 Filed 9-3-20; 8:45 am]

BILLING CODE 6560-50-P

ENVIRONMENTAL PROTECTION AGENCY

[EPA-HQ-OEM-2015-0725; FRL-10013-31-OLEM]

Accidental Release Prevention Requirements: Risk Management Programs Under the Clean Air Act; Final Action on Petitions for Reconsideration

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice of final action denying petitions for reconsideration.

SUMMARY: The U.S. Environmental Protection Agency (EPA) received three petitions for reconsideration of the final revisions to the Accidental Release Prevention Requirements: Risk Management Programs under the Clean Air Act, published in the **Federal Register** on December 19, 2019. The agency is providing notice that it is denying all three petitions for reconsideration. The basis for EPA's action is set out fully in separate letters addressed to each petitioner, available in the rulemaking docket.

DATES: September 4, 2020.

FOR FURTHER INFORMATION CONTACT: James Belke, United States Environmental Protection Agency,

Office of Land and Emergency Management, 1200 Pennsylvania Ave. NW (Mail Code 5104A), Washington, DC 20460; telephone number: (202) 564-8023; email address: belke.jim@epa.gov, or: William Noggle, United States Environmental Protection Agency, Office of Land and Emergency Management, 1200 Pennsylvania Ave. NW (Mail Code 5104A), Washington, DC 20460; telephone number: (202) 566-1306; email address: noggle.william@epa.gov.

SUPPLEMENTARY INFORMATION:

I. How can I get copies of this document and other related information?

A copy of this **Federal Register** notice, the petitions for reconsideration, and the separate letters describing the full basis for this action are available in the rulemaking docket (Docket ID No. EPA-HQ-OEM-2015-0725). Publicly available docket materials are available electronically through www.regulations.gov. In addition, following signature, an electronic copy of this final action and the letters will be available on the internet at www.epa.gov/rmp/final-risk-management-program-rmp-reconsideration-rule. Out of an abundance of caution for members of the public and our staff, the EPA Docket Center and Reading Room are closed to the public, with limited exceptions, to reduce the risk of transmitting COVID-19. Our Docket Center staff will continue to provide remote customer service via email, phone, and webform. We encourage the public to obtain docket information via <https://www.regulations.gov/>. For further information on EPA Docket Center services and the current status, please visit us online at <https://www.epa.gov/dockets>.

II. Judicial Review

Section 307(b)(1) of the CAA indicates which Federal Courts of Appeal have venue for petitions of review of final actions by the EPA. This section provides, in part, that "a petition for review of action of the Administrator in promulgating . . . any standard of performance or requirement under section [111] of [the CAA]," or any other "nationally applicable" final action, "may be filed only in the United States Court of Appeals for the District of Columbia."

The EPA has determined that its actions denying the petitions for reconsideration are nationally applicable for purposes of CAA section 307(b)(1) because these actions directly relate to the Risk Management Program regulations promulgated under CAA

section 112(r), which are nationally applicable requirements. Thus, any petitions for review of the final letters denying the petitions for reconsideration must be filed in the Court of Appeals for the District of Columbia Circuit on or before November 3, 2020.

Andrew Wheeler,
Administrator.

[FR Doc. 2020-19576 Filed 9-3-20; 8:45 am]

BILLING CODE 6560-50-P

EXPORT-IMPORT BANK

[Public Notice: EIB-2020-0007]

Proposal To Adopt the 2010 Small Business Jobs Act Interim Rule as an Alternative Size Standard for Defining a Small Business for Export-Import Bank Programs; Correction

AGENCY: Export-Import Bank of the United States.

ACTION: Notice; correction.

SUMMARY: The Export-Import Bank of the United States published a document in the *Federal Register* of August 30, 2020 concerning a proposal to adopt the 2010 Small Business Jobs Act Interim Rule as an Alternative Size Standard for Defining a Small Business for Export-Import Bank Programs. The document published with an omitted sentence.

FOR FURTHER INFORMATION CONTACT: James Burrows, Senior Vice President, Office of Small Business, Export-Import Bank of the United States, at james.burrows@exim.gov or 202-565-3801.

SUPPLEMENTARY INFORMATION:

Correction

In the *Federal Register* of Friday, August 28, 2020 in FR Doc Public Notice: EIB-2020-0007 on page 53369, in the first column, correct the second sentence in the **SUMMARY** to read:

The Jobs Act mandated that until the SBA establishes a permanent tangible net worth and average net income based alternative size standard, SBA shall use the following alternative size standard for applicants for business loans under Section 7(a) of the Small Business Act (7(a) Loan Program) and applicants for development company loans under Title V of the Small Business Investment Act of 1958 (504 Loan Program) in addition to the use of industry based size standards: not more than \$15 million in tangible net worth and not more than \$5 million in average net income after Federal income taxes (excluding any carryover losses) of the applicant for the

2 full fiscal years before the date of the application (Interim Rule).

DATES: This announcement is made as of September 4, 2020.

Export-Import Bank of the United States.

Joyce B. Stone,

Assistant Corporate Secretary.

[FR Doc. 2020-19651 Filed 9-3-20; 8:45 am]

BILLING CODE 6690-01-P

EXPORT-IMPORT BANK

[Public Notice: 2020-6002]

Agency Information Collection Activities: Comment Request

AGENCY: Export-Import Bank of the United States.

ACTION: Submission for OMB review and comments request.

SUMMARY: The Export-Import Bank of the United States (EXIM), as a part of its continuing effort to reduce paperwork and respondent burden, invites the general public and other Federal Agencies to comment on the proposed information collection, as required by the Paperwork Reduction Act of 1995. EXIM plans to invite approximately 150 U.S. exporters and commercial lending institutions that have used EXIM's short-, medium-, and long-term programs over the previous calendar year with an electronic invitation to participate in the online survey. The proposed survey will ask participants to evaluate the competitiveness of EXIM's programs and how the programs compare to those of foreign credit agencies. EXIM will use the responses to develop an analysis of the Bank's competitiveness.

The survey can be reviewed at: http://www.exim.gov/sites/default/files/pub/pending/EXIM_Competitiveness_Report_Survey.pdf.

DATES: Comments should be received on or before November 3, 2020 to be assured of consideration.

ADDRESSES: Comments may be submitted electronically on www.regulations.gov (EIB 00-02).

SUPPLEMENTARY INFORMATION:

Titles and Form Number: EIB 00-02 Annual Competitiveness Report Survey of Exporters and Bankers.

OMB Number: 3048-0004.

Type of Review: Renewal.

Need and Use: The information requested enables EXIM to evaluate and assess its competitiveness with the programs and activities of the major official entities and to report on the Bank's status in this regard.

Affected Public

The number of respondents: 150.

Estimated time per respondents: 90 minutes.

The frequency of response: Annually.

Annual hour burden: 225 total hours.

Government Expenses

Reviewing time per response: 45 minutes.

Responses per year: 150.

Reviewing time per year: 112.5 hours.

Average Wages per hour: \$42.50.

Average cost per year: \$4,781.25 (time * wages).

Benefits and overhead: 20%.

Total Government Cost: \$5737.5.

Bassam Doughman,

IT Specialist.

[FR Doc. 2020-19662 Filed 9-3-20; 8:45 am]

BILLING CODE 6690-01-P

FEDERAL DEPOSIT INSURANCE CORPORATION

[OMB No. 3064-0099;-0149]

Agency Information Collection Activities: Proposed Collection Renewal; Comment Request

AGENCY: Federal Deposit Insurance Corporation (FDIC).

ACTION: Notice and request for comment.

SUMMARY: The FDIC, as part of its obligations under the Paperwork Reduction Act of 1995 (PRA), invites the general public and other Federal agencies to take this opportunity to comment on the renewal of the existing information collections described below (OMB Control No. 3064-0099;-0149).

DATES: Comments must be submitted on or before November 3, 2020.

ADDRESSES: Interested parties are invited to submit written comments to the FDIC by any of the following methods:

- *Agency Website:* <https://www.FDIC.gov/regulations/laws/federal>.

- *Email:* comments@fdic.gov. Include the name and number of the collection in the subject line of the message.

- *Mail:* Manny Cabeza (202-898-3767), Regulatory Counsel, MB-3128, Federal Deposit Insurance Corporation, 550 17th Street NW, Washington, DC 20429.

- *Hand Delivery:* Comments may be hand-delivered to the guard station at the rear of the 17th Street building (located on F Street), on business days between 7:00 a.m. and 5:00 p.m.

All comments should refer to the relevant OMB control number. A copy of the comments may also be submitted

CERTIFICATE OF SERVICE

I hereby certify that pursuant to D.C. Circuit Rule 15(a), a copy of the foregoing Petition for Review was served on November 3, 2020 by first class mail, postage prepaid on the following:

Andrew Wheeler, Administrator
Office of the Administrator (1101A)
Environmental Protection Agency
1200 Pennsylvania Ave., NW
Washington, DC 20460

William Barr
Attorney General of the United States
U.S. Department of Justice
950 Pennsylvania Ave., NW
Washington, DC 20530

Correspondence Control Unit
Office of General Counsel (2311)
United States Environmental Protection Agency
William Jefferson Clinton Federal Building
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460

/s/ Laura Mirman-Heslin
Laura Mirman-Heslin