

CONSTRUCTION REACTOR OVERSIGHT PROCESS RESOURCES

The U.S. Nuclear Regulatory Commission (NRC) staff originally estimated that direct inspection will require 35,000 hours per unit over the course of a 5-year nuclear power plant construction project. As of April 24, 2020, revised estimates are approximately 40,700 hours for Vogtle Unit 3 and 29,800 hours for Vogtle Unit 4. These revised estimates include:

- 18,800 hours for inspections related to ITAAC for Vogtle Unit 3, and 13,100 hours for Vogtle Unit 4;
- 11,900 hours for construction and operational program inspections for Vogtle Unit 3, and 6,700 hours for Vogtle Unit 4;
- 5,000 hours for reactive inspections above the baseline program in response to licensee performance issues, allegations, and nonperformance issues or events;
- and 5,000 hours for technical support of construction inspections.

Table 1 and figure 1 show the total number of direct inspection hours expended through December 2019, for Vogtle, Units 3 and 4.

Table 1: Actual Total Construction Inspection Program Resource Expenditures

Unit	ITAAC Inspection Hours/Percentage of Planned Inspections	Program Inspections	Reactive/Allegation-Related Inspections	Technical Support*	Total
Vogtle, Unit 3	15,342 / 82%	7,582	544	1,820	25,288
Vogtle, Unit 4	8,911 / 68%	4,728	342	1,017	14,998

* To date, NRC Headquarters technical staff inspection support has not been linked to a specific docket and has not been fee billable. Therefore, it is not possible to distinguish the technical support hours expended by the Office of Nuclear Reactor Regulation on each unit. In Table 1, the total hours expended on technical support have been split between the units.

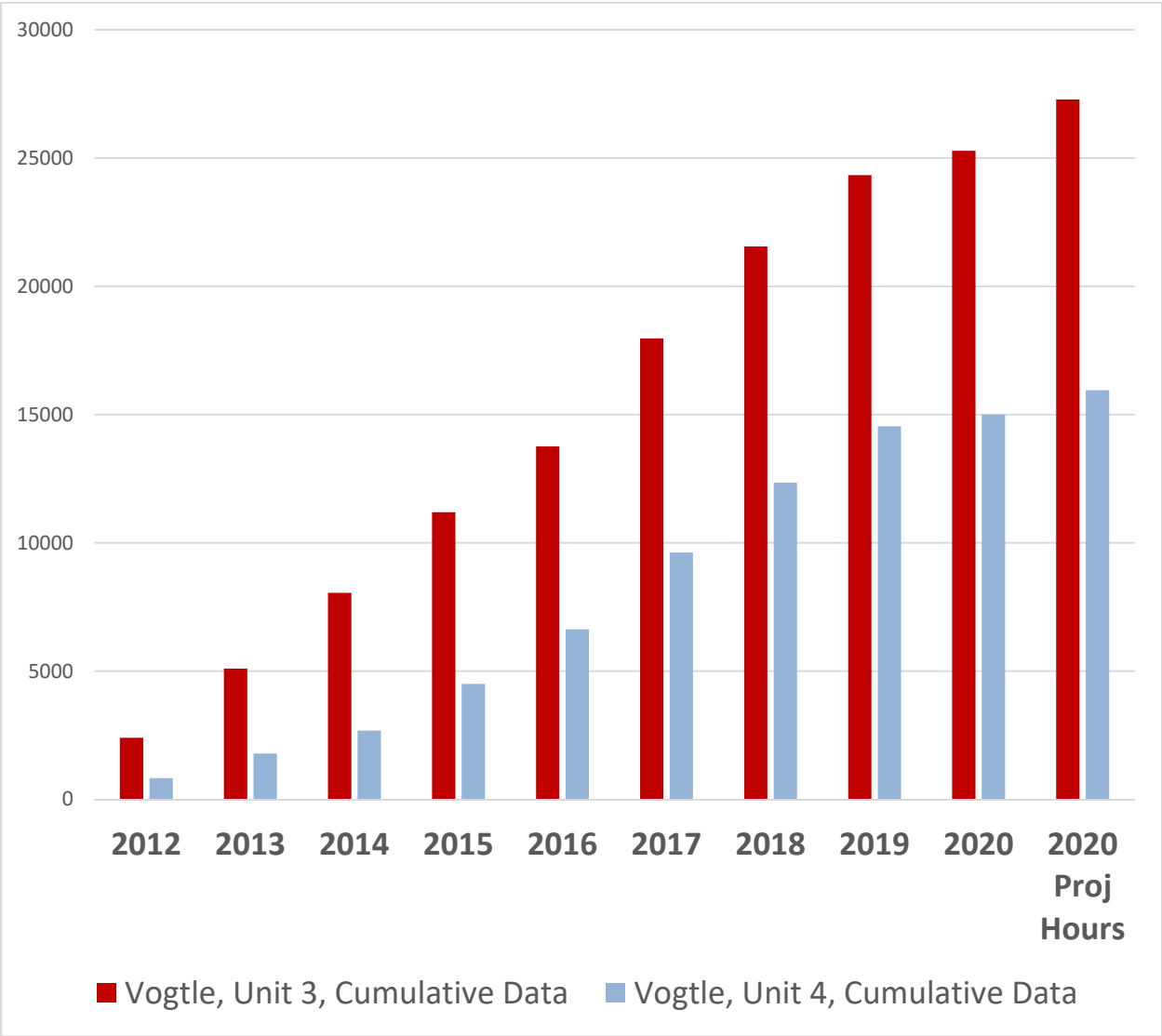


Figure 1 Total cumulative direct inspection hours for Vogtle, Unit 3 and 4

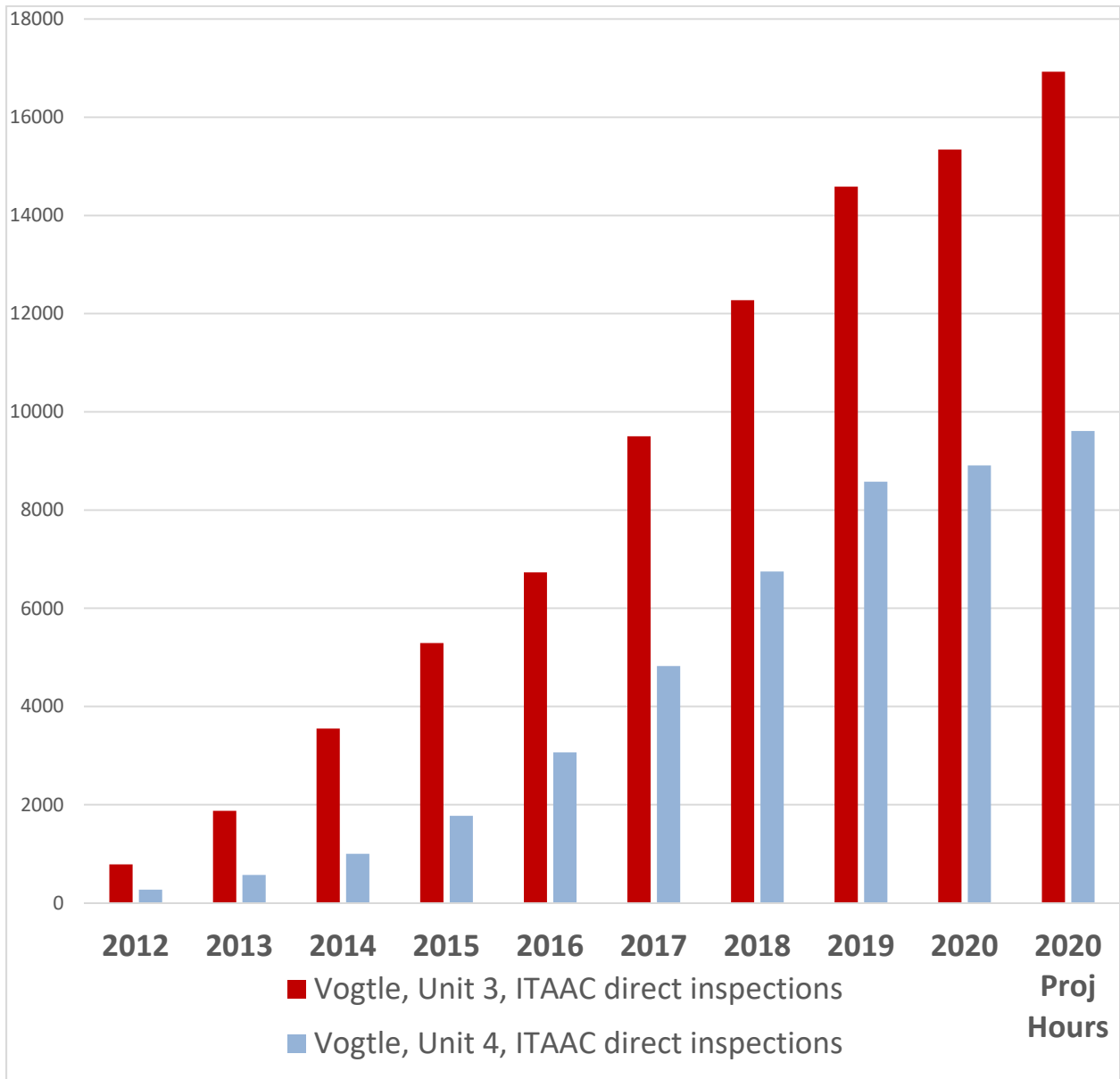


Figure 2 Cumulative ITAAC-related direct inspection hours for Vogtle, Units 3 and 4

Figure 2 summarizes the direct inspection hours expended for inspections related to ITAAC since the start of construction at Vogtle Units 3 and 4. The staff estimates that there will be approximately 18,800 hours of direct inspection related to ITAAC for Unit 3 and 13,100 hours of direct inspection related to ITAAC for Unit 4.

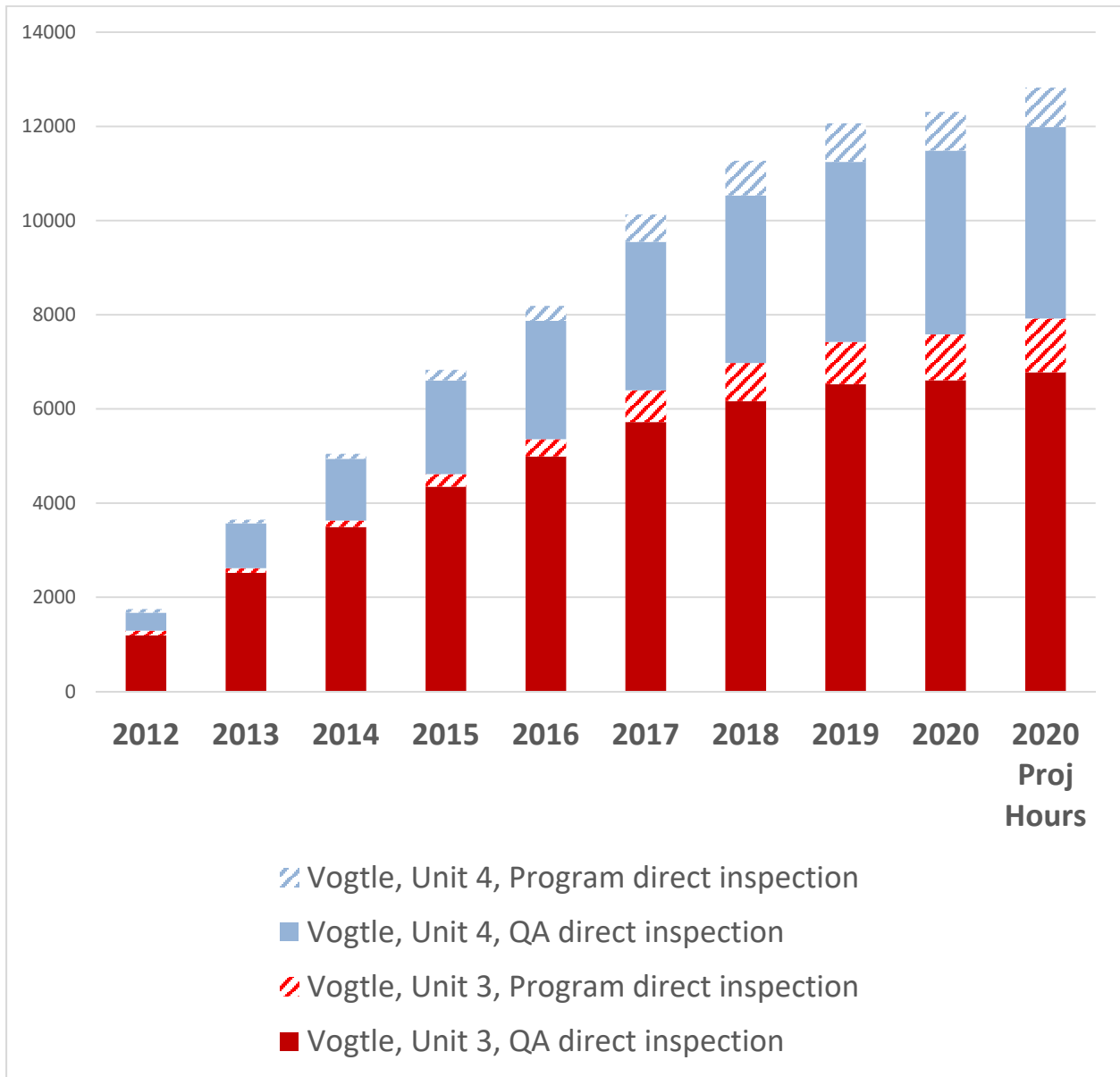


Figure 3 Cumulative quality assurance and program inspection for Vogtle, Units 3 and 4

Figure 3 summarizes the NRC staff resources in hours expended for programmatic inspection since the start of construction at Vogtle, Units 3 and 4. Based on Vogtle's schedule, total cumulative program inspections are estimated at 11,900 hours for Vogtle Unit 3, and 6,700 hours for Unit 4.

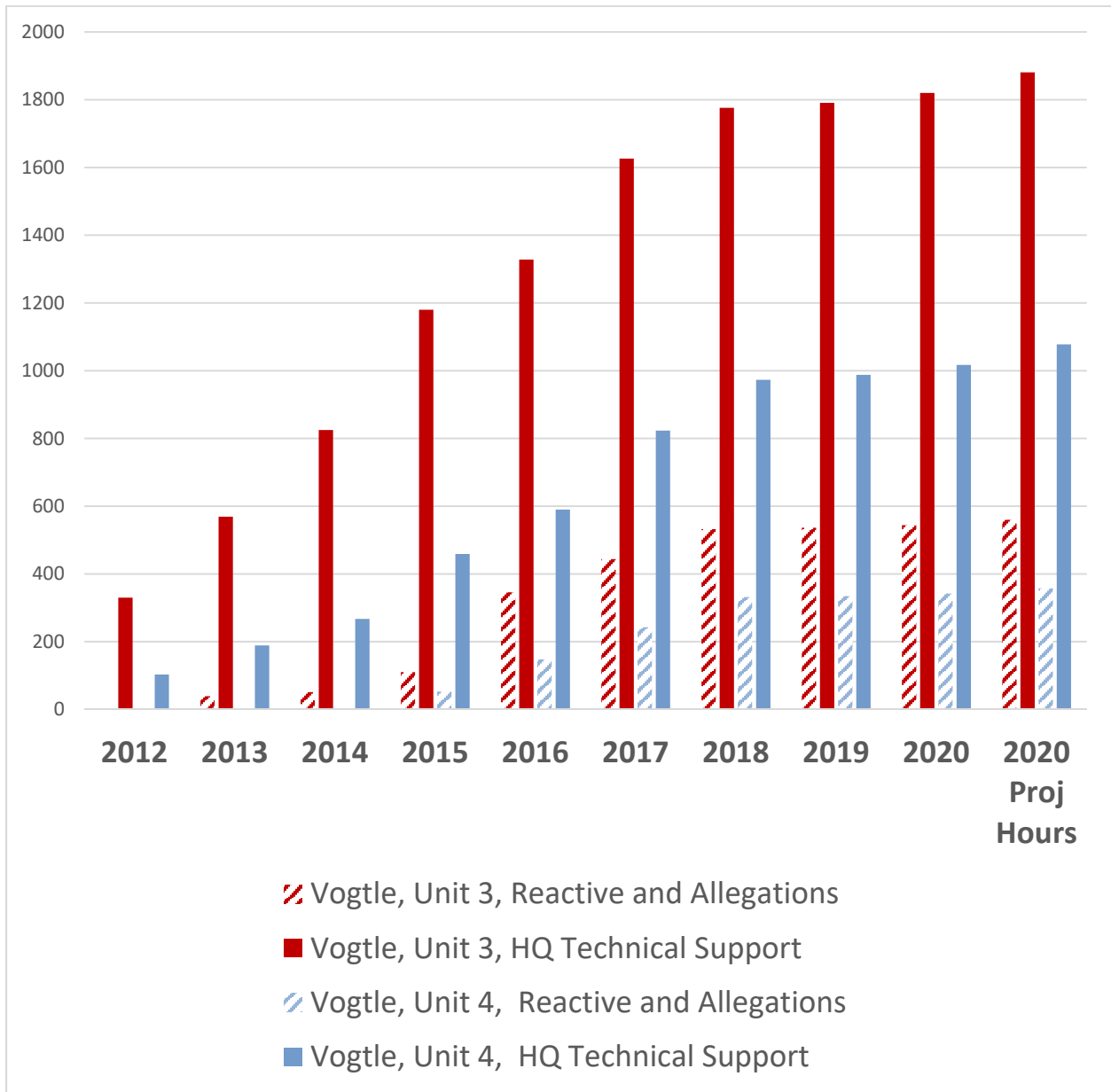


Figure 4 Cumulative reactive and technical support hours for Vogtle, Units 3 and 4

Figure 4 summarizes the direct inspection hours expended for reactive and allegation inspections and hours spent providing technical support for inspections since the start of construction at Vogtle, Units 3 and 4. The staff has not identified a need to revise the estimate of 5,000 hours for reactive inspections above the baseline program in response to licensee performance issues, allegations, and nonperformance issues or events, or the 5,000 hours estimated for technical support for construction inspections.