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Ways in Which Scientific Integrity Policies Can Be Violated

Type of Violation	Description
Research Misconduct	<p>In proposing, performing, or reviewing research or in reporting research results:</p> <ul style="list-style-type: none"> • Fabrication: Making up data or results and recording or reporting them. • Falsification: Manipulating research materials, equipment or processes, or changing or omitting data or results such that the research is not accurately represented in the research record. • Plagiarism: Appropriation of another person's ideas, processes, results, or words without giving appropriate credit.
Flawed Scientific Practice	<ul style="list-style-type: none"> • Use of improper or inappropriate methods or processes in conducting research. • Lack of adherence to practices for research quality, such as laboratory facility accreditation, quality assurance systems, and methods validation.
Flawed Review	<ul style="list-style-type: none"> • Undue influence or inadequate technical or peer review, including errors introduced within the review or clearance process, limiting scope of a review or peer review charge. • Untenable timelines for review that result in flawed or incomplete reviews. • Changing membership or structure of Federal Advisory Committees in ways that compromise their independence or eliminate needed expertise. • Failing to respond to reviewers' comments and/or selecting specific reviewers to influence the outcome of a review. • Denying scientists the opportunity to review descriptions of their scientific work included in other documentation, e.g., decision documents, policy reports.
Undermining the Scientific Workforce	<ul style="list-style-type: none"> • Selection or appointment of scientific staff based on non-science qualifications (e.g., to influence science in order to affect a particular policy outcome, reduce the overall quality of research findings, or diminish the public view and understanding of the science). • Undermining the expertise of Federal scientists by re-assignment to other duties or denying career advancement.

Suppression, Delay, or Censorship	<ul style="list-style-type: none"> • Preventing or delaying the release of a scientific product without scientific justification. • Failure to allow the inclusion of research, analysis, or technological information that well-established practices would consider necessary for decision-making.
Mischaracterization of Science	<ul style="list-style-type: none"> • Downplaying or exaggerating results. • Exaggerating uncertainty and/or not including or misrepresenting assumptions.
Manipulation of Science	<ul style="list-style-type: none"> • Altering, distorting, or changing science or scientific documents or documents derived from them without scientific justification.

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