

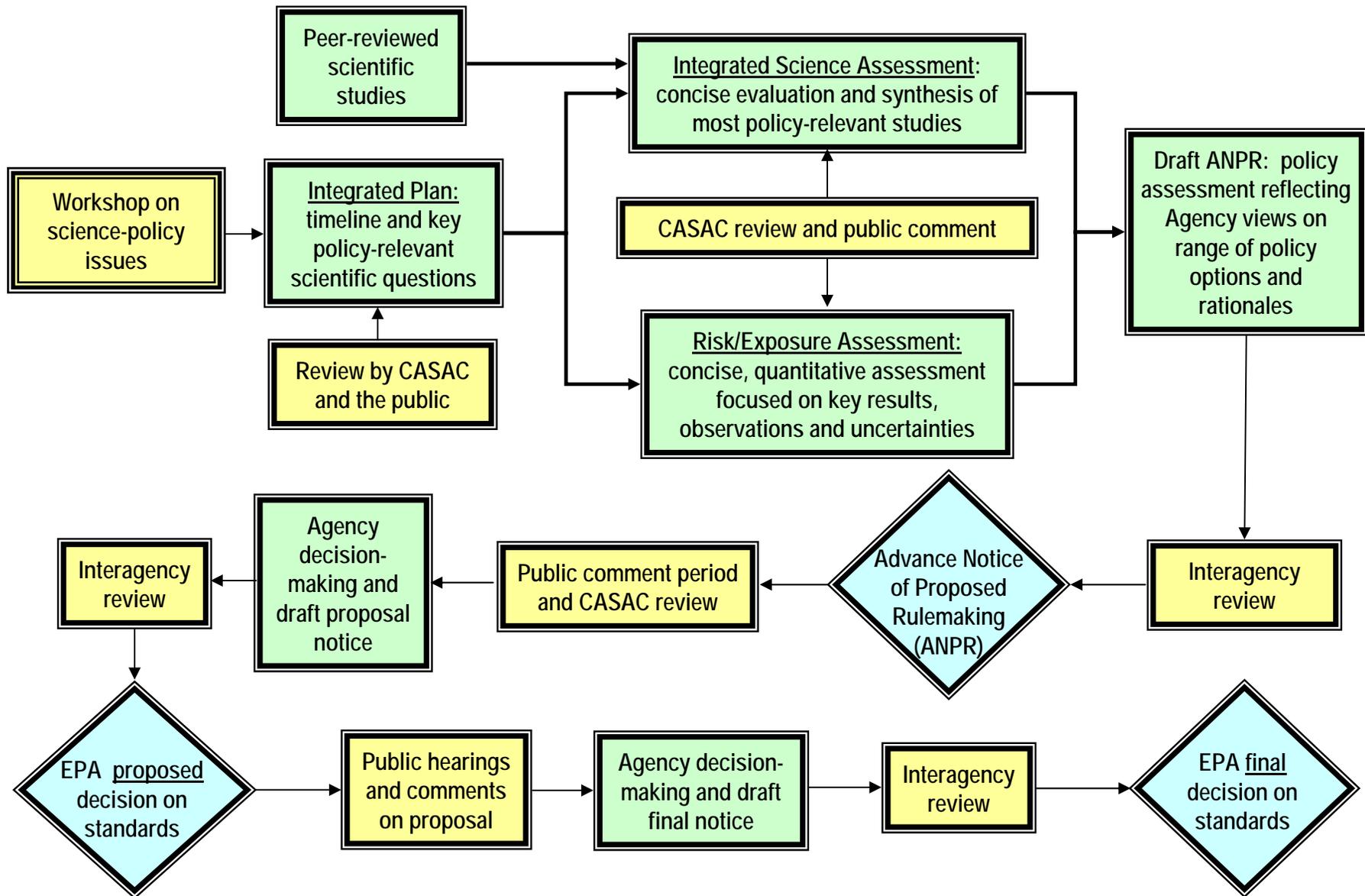
EPA's Review of the Carbon
Monoxide (CO) National Ambient Air
Quality Standards (NAAQS)

Draft Integrated Review Plan

CASAC Consultation

April 8, 2008

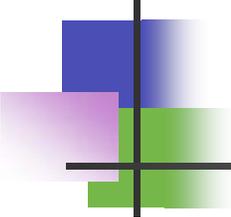
New NAAQS Review Process



Schedule for the Current Review

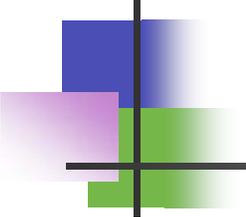
Major Milestones		Projected Completion Date	Projected CASAC Review Date
Workshops to Discuss Key Policy-Relevant Issues		January 2008	
Integrated Review Plan	Draft	March 2008	April 2008
	Final	May 2008	
Integrated Science Assessment	First Draft	June 2009	August 2009
	Second Draft	January 2010	March 2010
	Final	May 2010	
Risk/Exposure Assessment	Plan	July 2009	August 2009
	First Draft	February 2010	March 2010
	Second Draft	September 2010	November 2010
	Final	January 2011	
Policy Assessment/ Rulemaking	ANPR	February 2011	April 2011
	Proposed	October 2011	
	Final	July 2012	

*Indicates that a single CASAC meeting will address both documents



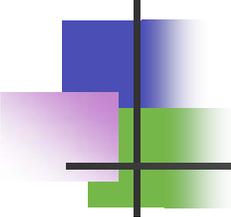
Overarching Questions

- In light of newly available information, is the current primary standard *requisite* to protect public health with an *adequate margin of safety*?
- If not, what revisions are appropriate in terms of *indicators, averaging times, levels and forms*?
- In light of newly available information, is a new secondary standard *requisite* to protect public welfare from any known or anticipated adverse effects?



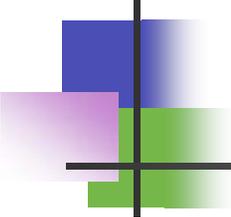
Integrated Review Plan Workshop

- A workshop was held on January 28-29, 2008 to inform the development of the draft integrated review plan
- Broad discussions of:
 - Key policy-relevant issues around which EPA would structure the review
 - Recommendations regarding the design and scope of the review
 - New and emerging scientific evidence
 - to inform our understanding of the key-policy relevant issues
 - to inform our ability to characterize and/or reduce the uncertainties identified in the last review



Integrated Review Plan Workshop: Focus on Primary Standard

- Participants included a wide range of external and internal experts representing a variety of areas of expertise (e.g., epidemiology, human and animal toxicology, atmospheric science, risk/exposure analysis, statistics)
- Two panel sessions addressed:
 - Planning for the review of the health effects evidence
 - Interpretation of epidemiologic and experimental evidence
 - Time periods of exposure
 - Sensitive subpopulations and health endpoints
 - Mechanistic evidence and biological plausibility
 - Integration of health evidence
 - Risk characterization
 - Critical factors for quantitative exposure assessment
 - Evidence and issues related to quantitative risk assessment



Draft Integrated Review Plan: Organization of Document

1. Introduction (including regulatory history)
2. Review Schedule
3. Key Policy-Relevant Issues
4. Science Assessment
5. Risk/Exposure Assessment
6. Policy Assessment/Rulemaking