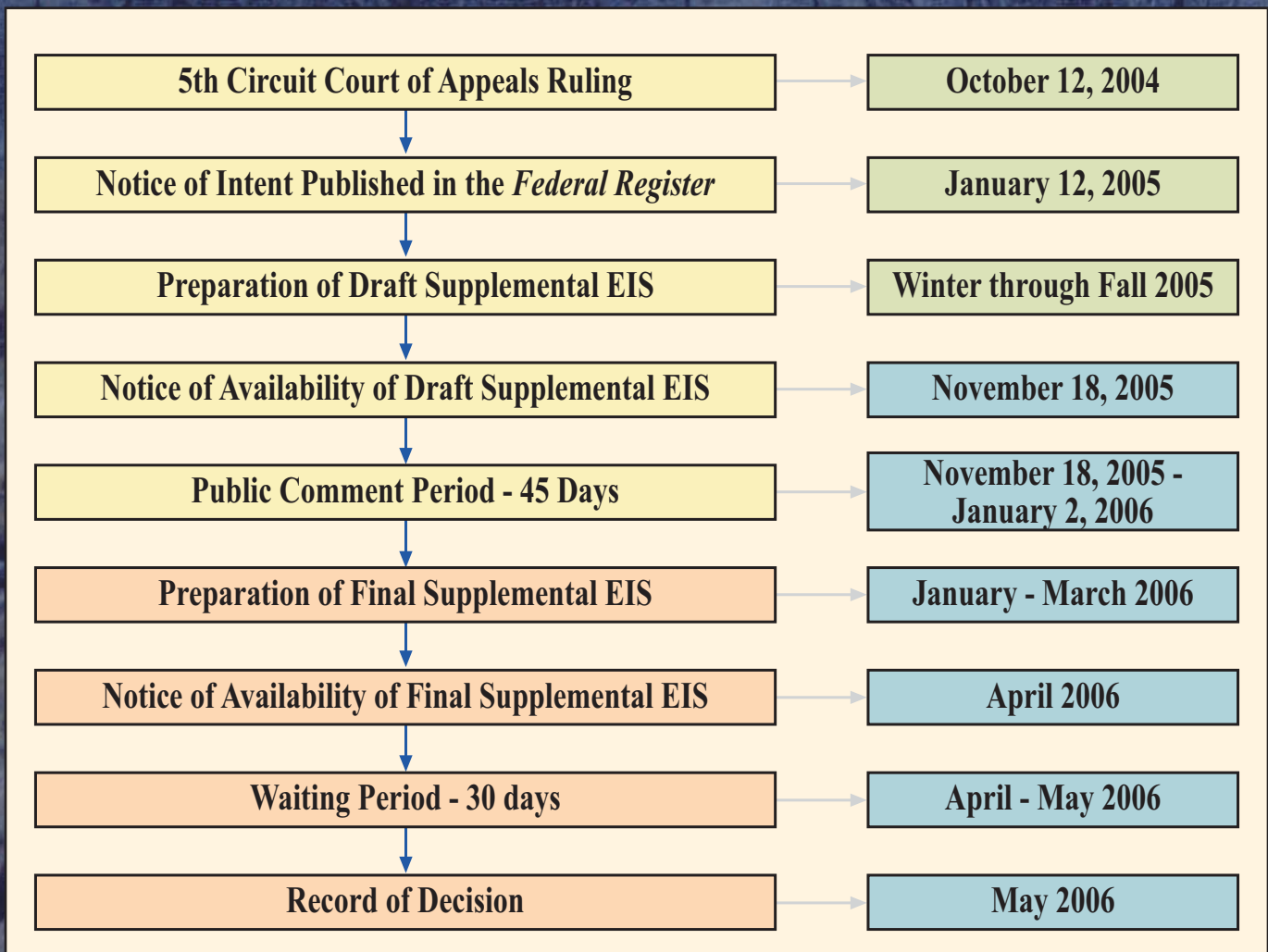




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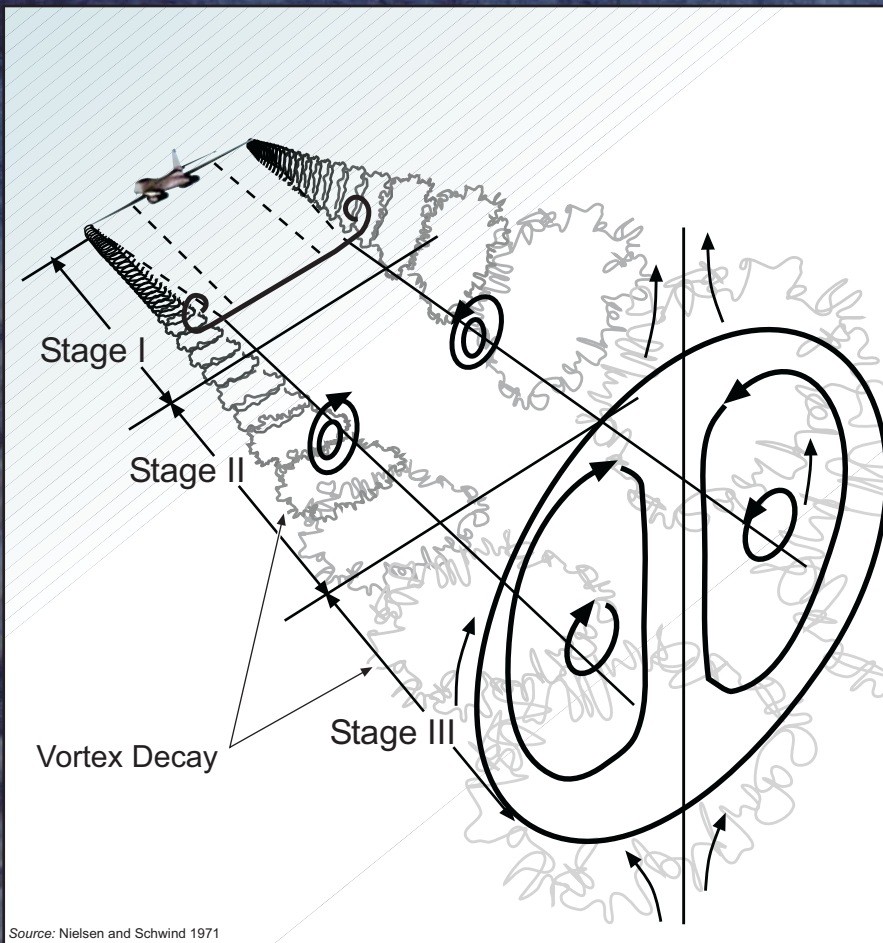
## Supplemental EIS National Environmental Policy Act (NEPA) Process





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### *Development Stages of Trailing Vortices Behind an Aircraft*



- **Stage I** is a rolling-up of the vortex directly behind the aircraft. At this stage, the counter-rotating vortices extend only a short distance behind the aircraft and consist of a relatively tight, organized airflow;

- **Stage II** occurs when the vortices reach equilibrium, become less organized, and diminish in strength while beginning to descend; and

- **Stage III** starts at the point where the vortices physically interact, lose organization, spread out, descend, and decay substantially in strength.

#### *Visible Vortices at High Altitude*





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## Wake Vortex Strength Under Various Flight Scenarios

Aircraft	Airspeed (Mach)	Flight Altitude (feet AGL)	Vortex Height Above Ground (feet)	Vortex Wind Speed (mph)
B-1B	0.85	500	0 (surface)	10
			19	22
B-1B	0.85	300	0 (surface)	10
			22	27
B-52	0.6	500	0 (surface)	<3
			64	21
B-52	0.6	300	0 (surface)	3
			66	27

*Mach 0.85 = 631 miles per hour*

*Mach 0.6 = 445 miles per hour*





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## RBTI EIS Airspace Alternatives

### Revised Alternative B: IR-178/Lancer MOA (Chartered Airspace)

