NDIA 48th Annual Fuze Conference Guidance Integrated Fuze / Course Correcting Fuze (GIF) (CCF)





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GIF & CCF



- GIF is a Technology Demonstration Program at NSWCDD Sponsored by OSD-ATL
- GIF is being co-developed by the Army & Navy as the design concept for the Army CCF Program
- US Army is developing a requirement for CCF. OPM CAS is the developer for USAFAS



GIF & CCF



- GIF is a low-cost, fuze-sized module that is intended to replace a "NATO standard" fuze
- GIF corrects the ballistic trajectory in 2D, resulting in a small terminal miss distance
- GIF provides "First Round Steel on Target"
- GIF technology can be applied to *literally millions of existing* 155mm, 105mm, 5", 76mm projectiles, and 120mm and 81mm mortars.



CCF Benefits





(Major Improvements to Cannon Artillery Effectiveness)



How does GIF Work?







Connectors



Technical Status









Guidance and Electronics Unit



GPS Antennae System







Program Plan



- Complete Technology Demonstration Phase w/ closed loop guided gun firing
- Award up to 2 Contracts (from NSWC) for development of GIF based on Gov't TDP
 - 100 Fuzes for qualification testing
 - Proposals may deviate from GIF baseline TDP to improve performance, reduce cost or schedule



Program Plan



- Down select for following options

 Build 1000 GIFs for Army user test
 Course Correcting Fuze development (SDD)
- Army to take GIF design into CCF SDD program in FY06
- CCF Initial Operational Capability in FY10



Program Plan







Requirements



	TD (FY04)	Increment 1 (IC FY07)	Increment 2 (IOC FY10)
Accuracy	50m	50m CEP	50m CEP
Ammo / Zone	M483 / 7R	M795? / 8S	All 155mm / 8S
Munition Type	Inert	HE	HE / DPICM
Fuzing Function	N/A	Prox, PD, ET	Prox, PD, ET, Delay
Setter	Bench	EPIAFS	EPIAFS
GPS	C/A	C/A	P(Y) SAASM
Temperature	Ambient	0 to +120°F	-45 to +145°F
Shelf Life	N/A	7 Years	20 Years



GIF / CCF Team







Conclusion



- Closed loop guided demo shot currently scheduled for October of this year
- Gov't plans to hold pre-solicitation conference prior to RFP release
 - Review baseline design and SOW
 - Look for a FEDBUZOPPS announcement this summer