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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

| APPROPRIATION/BUDGET ACTIVITY | | | | R-1 ITEM NOMENCLATURE | | | | | | | |
|---|----------------|----------------|---------------------|--|----------------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i> | | | | PE 1160472BB: <i>SOF Information and Broadcast Systems Advanced Technology</i> | | | | | | | |
| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| Total Program Element | 4.795 | 4.924 | 4.959 | - | 4.959 | 5.045 | 5.133 | 5.221 | 5.310 | Continuing | Continuing |
| S225: <i>SOF Information and Broadcast Systems Adv Tech</i> | 4.795 | 4.924 | 4.959 | - | 4.959 | 5.045 | 5.133 | 5.221 | 5.310 | Continuing | Continuing |

A. Mission Description and Budget Item Justification

This Program Element (PE) conducts rapid prototyping, advanced technology demonstrations, and advanced concept technology demonstrations of information and broadcast systems technology. Includes planning, analyzing, evaluating, and production information systems capabilities and distribution/dissemination broadcast systems capabilities. It provides a means for demonstrating and evaluating the utility of emerging/advanced technologies in as realistic an operational environment as possible by Special Operations Forces (SOF) users. This PE integrates efforts with each other and conducts technology demonstrations in conjunction with joint experiments and other assessment events. Evaluation results are included in a transition package, which assists in the initiation of or insertion into an acquisition program. The PE also addresses unique, joint special mission or area-specific needs for which prototypes must be developed on a rapid response basis, or are of sufficient time sensitivity to accelerate the prototyping effort of a normal acquisition program in any phase.

| B. Program Change Summary (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget | 4.942 | 4.924 | 4.899 | - | 4.899 |
| Current President's Budget | 4.795 | 4.924 | 4.959 | - | 4.959 |
| Total Adjustments | -0.147 | - | 0.060 | - | 0.060 |
| • Congressional General Reductions | - | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | -0.122 | - | | | |
| • Other Adjustment | -0.025 | - | 0.060 | - | 0.060 |

Change Summary Explanation

Funding:

FY 2011: Decrease of \$0.147 million is due to economic assumption reductions (-\$0.025 million) and a transfer to Small Business Innovative Research (-\$0.122 million).

FY 2012: None.

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| APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD) | | R-1 ITEM NOMENCLATURE PE 1160472BB: SOF Information and Broadcast Systems Advanced Technology |
| <p>FY 2013: Increase is due to an economic assumption increase (\$.060 million).</p> <p>Schedule: None.</p> <p>Technical: None.</p> | | |

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Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

| APPROPRIATION/BUDGET ACTIVITY | | | | R-1 ITEM NOMENCLATURE | | | | PROJECT | | | |
|---|---------|---------|--------------|--|---------------|---------|---------|---|---------|------------------|------------|
| 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i> | | | | PE 1160472BB: <i>SOF Information and Broadcast Systems Advanced Technology</i> | | | | S225: <i>SOF Information and Broadcast Systems Adv Tech</i> | | | |
| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| S225: <i>SOF Information and Broadcast Systems Adv Tech</i> | 4.795 | 4.924 | 4.959 | - | 4.959 | 5.045 | 5.133 | 5.221 | 5.310 | Continuing | Continuing |

A. Mission Description and Budget Item Justification

This project conducts rapid prototyping of information and broadcast system technology. This includes cyber capabilities that predict the best media channels to reach potential target audiences, data mining and information collections tools, propaganda and social behavior analytical tools, cultural analysis toolsets and emerging technologies that support the planning and analytical needs for the Military Information Support Operations (MISO) forces. It provides a means for demonstrating and evaluating the utility of emerging/advanced technologies in as realistic an operational environment as possible by SOF users. This project integrates efforts and conducts technology demonstrations in conjunction with joint experiments and other assessment events and performs market research on emerging technologies that support all phases of MISO. Evaluation results are included in a transition package, which assists in the initiation of or insertion into an acquisition program. The project also addresses unique, joint special mission or area-specific needs. Seeks technologies that will transform current MISO capabilities through two major objectives: 1) Exploit technologies capable of disseminating products to reach target audiences across a variety of media to include audiences in denied areas. 2) Automate and improve MISO planning and analytical capability through technologies that are integrated into SOF planning systems (Cultural Analysis, Targeting, Theme Development, Media & Product Selection, Distribution & Dissemination, and Measures of Effectiveness). Develops software applications that increase the efficiency and shorten the timeline to get MISO dissemination packages approved. Develops hardware/software tools that facilitate the collaboration and sharing of information and other critical data.

MISO Modernization. This initiative will initiate and continue development of emergent technologies available in the marketplace to transform and modernize MISO planning, analysis, development, broadcast, distribution, dissemination, and feedback capabilities. This initiative will also continue development of appropriate emerging technologies initially identified by ATDs and ACTDs to transition to acquisition programs. Technologies include: multi-frequency broadcast systems; digital broadcast capabilities; remote controlled electronic paper; near-real-time command and control of unattended MISO systems, especially in denied areas; focused/beam speaker sound technologies; visual projection technologies; advanced commercial broadcast technologies including amplitude modulation (AM) and frequency modulation (FM) radio transmitters and antenna; television (TV) transmitter and antenna systems; internet and telephony dissemination and broadcast systems; technologies capable of disseminating MISO products to reach target audiences across a wide variety of media into denied areas; and technologies that automate and improve MISO planning and analytical capability through integrated capabilities.

B. Accomplishments/Planned Programs (\$ in Millions)

| | FY 2011 | FY 2012 | FY 2013 |
|----------------------------------|---------|---------|---------|
| Title: MISO Modernization | 4.795 | 4.924 | 4.959 |
| FY 2011 Accomplishments: | | | |

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| APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i> | R-1 ITEM NOMENCLATURE PE 1160472BB: <i>SOF Information and Broadcast Systems Advanced Technology</i> | PROJECT S225: <i>SOF Information and Broadcast Systems Adv Tech</i> | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2011 | FY 2012 |
| <p>Transitioned previously developed technologies to programs of record such as Fly-Away Broadcast System and Media Production. These capabilities developed under the MISO modernization effort drastically enhanced the legacy programs and positioned the warfighter to fight future wars.</p> <p>FY 2012 Plans: Continues to transition previously developed technologies to programs of record.</p> <p>FY 2013 Plans: Continue to transition previously developed technologies to programs of record.</p> | | | |
| Accomplishments/Planned Programs Subtotals | | 4.795 | 4.924 |
| C. Other Program Funding Summary (\$ in Millions) N/A | | | |
| D. Acquisition Strategy N/A | | | |
| E. Performance Metrics N/A | | | |