

**UNCLASSIFIED**

| Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Air Force                                                                       |             |         |         |              |                                                                                   |               |         |         |         | Date: February 2018 |                  |            |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------|--------------|-----------------------------------------------------------------------------------|---------------|---------|---------|---------|---------------------|------------------|------------|
| Appropriation/Budget Activity<br>3600: Research, Development, Test & Evaluation, Air Force I BA 7:<br>Operational Systems Development |             |         |         |              | R-1 Program Element (Number/Name)<br>PE 0305913F I NUDET Detection System (SPACE) |               |         |         |         |                     |                  |            |
| COST (\$ in Millions)                                                                                                                 | Prior Years | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO                                                                       | FY 2019 Total | FY 2020 | FY 2021 | FY 2022 | FY 2023             | Cost To Complete | Total Cost |
| Total Program Element                                                                                                                 | -           | 21.093  | 0.000   | 0.000        | 0.000                                                                             | 0.000         | 0.000   | 0.000   | 0.000   | 0.000               | Continuing       | Continuing |
| 672808: Nuc Detonation Det Sys (sensors)                                                                                              | -           | 21.093  | 0.000   | 0.000        | 0.000                                                                             | 0.000         | 0.000   | 0.000   | 0.000   | 0.000               | Continuing       | Continuing |
| Quantity of RDT&E Articles                                                                                                            | -           | -       | -       | -            | -                                                                                 | -             | -       | -       | -       | -                   |                  |            |

**A. Mission Description and Budget Item Justification**

In FY2018, PE 0305913F, NUDET Detection System efforts were transferred to PE 1203913F, NUDET Detection System, due to the creation of a new Major Force Program for Space. FY2017 funding is documented in the exhibits for PE 1203913F.

|                                                   |                |                |                     |                    |                      |
|---------------------------------------------------|----------------|----------------|---------------------|--------------------|----------------------|
| <b>B. Program Change Summary (\$ in Millions)</b> | <b>FY 2017</b> | <b>FY 2018</b> | <b>FY 2019 Base</b> | <b>FY 2019 OCO</b> | <b>FY 2019 Total</b> |
| Previous President's Budget                       | 21.093         | 0.000          | 0.000               | 0.000              | 0.000                |
| Current President's Budget                        | 21.093         | 0.000          | 0.000               | 0.000              | 0.000                |
| Total Adjustments                                 | 0.000          | 0.000          | 0.000               | 0.000              | 0.000                |
| • Congressional General Reductions                | 0.000          | 0.000          |                     |                    |                      |
| • Congressional Directed Reductions               | 0.000          | 0.000          |                     |                    |                      |
| • Congressional Rescissions                       | 0.000          | 0.000          |                     |                    |                      |
| • Congressional Adds                              | 0.000          | 0.000          |                     |                    |                      |
| • Congressional Directed Transfers                | 0.000          | 0.000          |                     |                    |                      |
| • Reprogrammings                                  | 0.000          | 0.000          |                     |                    |                      |
| • SBIR/STTR Transfer                              | 0.000          | 0.000          |                     |                    |                      |
| • Other Adjustments                               | 0.000          | 0.000          | 0.000               | 0.000              | 0.000                |