

UNCLASSIFIED

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Department of Defense  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

| Appropriation<br>-----                         | FY 2017<br>(Base + OCO)<br>----- | FY 2018<br>PB Request<br>with CR Adj<br>Base<br>----- | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base<br>----- | FY 2018<br>PB Request<br>with CR Adj<br>OCO<br>----- | FY 2018<br>Total<br>PB Requests+<br>with CR Adj<br>OCO<br>----- |
|--|----------------------------------|---|--|--|---|
| Research, Development, Test & Eval, AF         | 28,381,681                       | 27,577,477  | 27,577,477   | 365,205  | 365,205   |
| Total Research, Development, Test & Evaluation | 28,381,681                       | 27,577,477  | 27,577,477   | 365,205  | 365,205   |

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Department of Defense  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

| Appropriation                                  | FY 2018<br>Emergency<br>Requests** | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>Emergency | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency** | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO +<br>Emergency |
|--|------------------------------------|---|---------------------------------------|--|---|--|
| Research, Development, Test & Eval, AF         | 255,744                            | -255,744  |                                       | 28,198,426   | -255,744  | 27,942,682   |
| Total Research, Development, Test & Evaluation | 255,744                            | -255,744  |                                       | 28,198,426   | -255,744  | 27,942,682   |

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Department of Defense  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

| Appropriation                                  | FY 2019<br>Base | FY 2019<br>OCO | FY 2019<br>Total |
|--|-----------------|----------------|------------------|
| -----  | -----           | -----          | -----            |
| Research, Development, Test & Eval, AF         | 39,892,149      | 600,465        | 40,492,614       |
| Total Research, Development, Test & Evaluation | 39,892,149      | 600,465        | 40,492,614       |

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Department of Defense  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

| Summary Recap of Budget Activities             | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests+<br>with CR Adj<br>OCO |
|--|-------------------------|--|---|---|--|
| -----  |                         |  |   |   |  |
| Basic Research                                 | 521,594                 | 505,259                                      | 505,259   |   |  |
| Applied Research                               | 1,314,271               | 1,284,114                                    | 1,284,114   |   |  |
| Advanced Technology Development                | 792,497                 | 794,017                                      | 794,017   |   |  |
| Advanced Component Development & Prototypes    | 2,822,781               | 4,605,030                                    | 4,605,030   | 13,200                                      | 13,200   |
| System Development & Demonstration             | 3,983,019               | 4,476,762                                    | 4,476,762   |   |  |
| Management Support                             | 1,690,840               | 2,663,875                                    | 2,663,875   |   |  |
| Operational Systems Development                | 17,256,679              | 20,585,302                                   | 20,585,302  | 122,158                                     | 122,158  |
| Undistributed                                  |                         | -7,336,882                                   | -7,336,882  | 229,847                                     | 229,847  |
| Total Research, Development, Test & Evaluation | 28,381,681              | 27,577,477                                   | 27,577,477  | 365,205                                     | 365,205  |

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Department of Defense  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

|  | FY 2018<br>Emergency<br>Requests** | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>Emergency | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency** | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO +<br>Emergency |
|--|------------------------------------|---|---------------------------------------|--|---|--|
| Summary Recap of Budget Activities             |                                    |   |                                       |  |   |  |
| -----  |                                    |   |                                       |  |   |  |
| Basic Research                                 |                                    |   |                                       | 505,259  |   | 505,259  |
| Applied Research                               |                                    |   |                                       | 1,284,114  |   | 1,284,114  |
| Advanced Technology Development                |                                    |   |                                       | 794,017  |   | 794,017  |
| Advanced Component Development & Prototypes    | 90,500                             | -90,500   |                                       | 4,708,730  | -90,500   | 4,618,230  |
| System Development & Demonstration             |                                    |   |                                       | 4,476,762  |   | 4,476,762  |
| Management Support                             |                                    |   |                                       | 2,663,875  |   | 2,663,875  |
| Operational Systems Development                | 165,244                            | -165,244  |                                       | 20,872,704   | -165,244  | 20,707,460   |
| Undistributed                                  |                                    |   |                                       | -7,107,035   |   | -7,107,035   |
| Total Research, Development, Test & Evaluation | 255,744                            | -255,744  |                                       | 28,198,426   | -255,744  | 27,942,682   |

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FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

| Summary Recap of Budget Activities<br>-----    | FY 2019<br>Base<br>----- | FY 2019<br>OCO<br>----- | FY 2019<br>Total<br>----- |
|--|--------------------------|-------------------------|---------------------------|
| Basic Research                                 | 517,819                  |                         | 517,819                   |
| Applied Research                               | 1,312,342                |                         | 1,312,342                 |
| Advanced Technology Development                | 814,797                  |                         | 814,797                   |
| Advanced Component Development & Prototypes    | 6,529,943                | 13,495                  | 6,543,438                 |
| System Development & Demonstration             | 5,272,191                |                         | 5,272,191                 |
| Management Support                             | 2,839,511                |                         | 2,839,511                 |
| Operational Systems Development                | 22,605,546               | 586,970                 | 23,192,516                |
| Undistributed                                  |                          |                         |                           |
| Total Research, Development, Test & Evaluation | 39,892,149               | 600,465                 | 40,492,614                |

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FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

|  | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests+<br>with CR Adj<br>OCO |
|--|-------------------------|--|---|---|--|
|  | -----                   | -----  | -----   | -----                                       | -----  |
| Summary Recap of FYDP Programs                 |                         |  |   |   |  |
| -----  |                         |  |   |   |  |
| Strategic Forces                               | 658,404                 | 825,038                                      | 825,038   |   |  |
| General Purpose Forces                         | 2,060,061               | 2,962,365                                    | 2,962,365   | 9,750                                       | 9,750  |
| Intelligence and Communications                | 2,048,032               | 1,466,925                                    | 1,466,925   | 5,400                                       | 5,400  |
| Mobility Forces                                | 476,577                 | 602,629                                      | 602,629   |   |  |
| Research and Development                       | 10,034,179              | 10,713,989                                   | 10,713,989  | 7,800                                       | 7,800  |
| Central Supply and Maintenance                 | 93,625                  | 109,419                                      | 109,419   |   |  |
| Training Medical and Other                     | 3,251                   | 3,615  | 3,615   |   |  |
| Administration and Associated Activities       | 31,237                  | -7,214,983                                   | -7,214,983  | 229,847                                     | 229,847  |
| Support of Other Nations                       | 4,626                   | 4,569  | 4,569   |   |  |
| Space  |                         | 3,165,909                                    | 3,165,909   |   |  |
| Classified Programs                            | 12,971,689              | 14,938,002                                   | 14,938,002  | 112,408                                     | 112,408  |
| Total Research, Development, Test & Evaluation | 28,381,681              | 27,577,477                                   | 27,577,477  | 365,205                                     | 365,205  |

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Department of Defense  
 FY 2019 President's Budget  
 Exhibit R-1 FY 2019 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

01 Feb 2018

|  | FY 2018<br>Emergency<br>Requests**<br>Emergency | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>Emergency | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency** | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO +<br>Emergency |
|--|---|---|---------------------------------------|--|---|--|
| Summary Recap of FYDP Programs                 |   |   |                                       |  |   |  |
| Strategic Forces                               |   |   |                                       | 825,038  |   | 825,038  |
| General Purpose Forces                         |   |   |                                       | 2,972,115  |   | 2,972,115  |
| Intelligence and Communications                | 90,500  | -90,500   |                                       | 1,562,825  | -90,500   | 1,472,325  |
| Mobility Forces                                |   |   |                                       | 602,629  |   | 602,629  |
| Research and Development                       |   |   |                                       | 10,721,789   |   | 10,721,789   |
| Central Supply and Maintenance                 |   |   |                                       | 109,419  |   | 109,419  |
| Training Medical and Other                     |   |   |                                       | 3,615  |   | 3,615  |
| Administration and Associated Activities       |   |   |                                       | -6,985,136   |   | -6,985,136   |
| Support of Other Nations                       |   |   |                                       | 4,569  |   | 4,569  |
| Space  |   |   |                                       | 3,165,909  |   | 3,165,909  |
| Classified Programs                            | 165,244   | -165,244  |                                       | 15,215,654   | -165,244  | 15,050,410   |
| Total Research, Development, Test & Evaluation | 255,744   | -255,744  |                                       | 28,198,426   | -255,744  | 27,942,682   |

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Department of Defense  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

|  | FY 2019<br>Base | FY 2019<br>OCO | FY 2019<br>Total |
|--|-----------------|----------------|------------------|
|  | -----           | -----          | -----            |
| Summary Recap of FYDP Programs                 |                 |                |                  |
| -----  |                 |                |                  |
| Strategic Forces                               | 1,064,875       |                | 1,064,875        |
| General Purpose Forces                         | 3,287,655       | 53,049         | 3,340,704        |
| Intelligence and Communications                | 1,394,674       | 54,600         | 1,449,274        |
| Mobility Forces                                | 916,041         |                | 916,041          |
| Research and Development                       | 12,027,571      |                | 12,027,571       |
| Central Supply and Maintenance                 | 97,134          |                | 97,134           |
| Training Medical and Other                     | 3,578           |                | 3,578            |
| Administration and Associated Activities       | 130,882         |                | 130,882          |
| Support of Other Nations                       | 3,998           |                | 3,998            |
| Space  | 4,717,811       | 18,495         | 4,736,306        |
| Classified Programs                            | 16,247,930      | 474,321        | 16,722,251       |
| Total Research, Development, Test & Evaluation | 39,892,149      | 600,465        | 40,492,614       |

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Department of the Air Force  
 FY 2019 President's Budget  
 Exhibit R-1 FY 2019 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

01 Feb 2018

| Summary Recap of Budget Activities             | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests+<br>with CR Adj<br>OCO |
|--|-------------------------|--|---|---|--|
| -----  |                         |  |   |   |  |
| Basic Research                                 | 521,594                 | 505,259                                      | 505,259   |   |  |
| Applied Research                               | 1,314,271               | 1,284,114                                    | 1,284,114   |   |  |
| Advanced Technology Development                | 792,497                 | 794,017                                      | 794,017   |   |  |
| Advanced Component Development & Prototypes    | 2,822,781               | 4,605,030                                    | 4,605,030   | 13,200                                      | 13,200   |
| System Development & Demonstration             | 3,983,019               | 4,476,762                                    | 4,476,762   |   |  |
| Management Support                             | 1,690,840               | 2,663,875                                    | 2,663,875   |   |  |
| Operational Systems Development                | 17,256,679              | 20,585,302                                   | 20,585,302  | 122,158                                     | 122,158  |
| Undistributed                                  |                         | -7,336,882                                   | -7,336,882  | 229,847                                     | 229,847  |
| Total Research, Development, Test & Evaluation | 28,381,681              | 27,577,477                                   | 27,577,477  | 365,205                                     | 365,205  |

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Department of the Air Force  
 FY 2019 President's Budget  
 Exhibit R-1 FY 2019 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

01 Feb 2018

|  | FY 2018<br>Emergency<br>Requests** | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>Emergency | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency** | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO +<br>Emergency |
|--|------------------------------------|---|---------------------------------------|--|---|--|
| Summary Recap of Budget Activities             |                                    |   |                                       |  |   |  |
| Basic Research                                 |                                    |   |                                       | 505,259  |   | 505,259  |
| Applied Research                               |                                    |   |                                       | 1,284,114  |   | 1,284,114  |
| Advanced Technology Development                |                                    |   |                                       | 794,017  |   | 794,017  |
| Advanced Component Development & Prototypes    | 90,500                             | -90,500   |                                       | 4,708,730  | -90,500   | 4,618,230  |
| System Development & Demonstration             |                                    |   |                                       | 4,476,762  |   | 4,476,762  |
| Management Support                             |                                    |   |                                       | 2,663,875  |   | 2,663,875  |
| Operational Systems Development                | 165,244                            | -165,244  |                                       | 20,872,704   | -165,244  | 20,707,460   |
| Undistributed                                  |                                    |   |                                       | -7,107,035   |   | -7,107,035   |
| Total Research, Development, Test & Evaluation | 255,744                            | -255,744  |                                       | 28,198,426   | -255,744  | 27,942,682   |

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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

| Summary Recap of Budget Activities<br>-----    | FY 2019<br>Base<br>----- | FY 2019<br>OCO<br>----- | FY 2019<br>Total<br>----- |
|--|--------------------------|-------------------------|---------------------------|
| Basic Research                                 | 517,819                  |                         | 517,819                   |
| Applied Research                               | 1,312,342                |                         | 1,312,342                 |
| Advanced Technology Development                | 814,797                  |                         | 814,797                   |
| Advanced Component Development & Prototypes    | 6,529,943                | 13,495                  | 6,543,438                 |
| System Development & Demonstration             | 5,272,191                |                         | 5,272,191                 |
| Management Support                             | 2,839,511                |                         | 2,839,511                 |
| Operational Systems Development                | 22,605,546               | 586,970                 | 23,192,516                |
| Undistributed                                  |                          |                         |                           |
| Total Research, Development, Test & Evaluation | 39,892,149               | 600,465                 | 40,492,614                |

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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

|  | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests+<br>with CR Adj<br>OCO |
|--|-------------------------|--|---|---|--|
| Summary Recap of Budget Activities             |                         |  |   |   |  |
| -----  |                         |  |   |   |  |
| Summary Recap of FYDP Programs                 |                         |  |   |   |  |
| -----  |                         |  |   |   |  |
| Strategic Forces                               | 658,404                 | 825,038                                      | 825,038   |   |  |
| General Purpose Forces                         | 2,060,061               | 2,962,365                                    | 2,962,365   | 9,750                                       | 9,750  |
| Intelligence and Communications                | 2,048,032               | 1,466,925                                    | 1,466,925   | 5,400                                       | 5,400  |
| Mobility Forces                                | 476,577                 | 602,629                                      | 602,629   |   |  |
| Research and Development                       | 10,034,179              | 10,713,989                                   | 10,713,989  | 7,800                                       | 7,800  |
| Central Supply and Maintenance                 | 93,625                  | 109,419                                      | 109,419   |   |  |
| Training Medical and Other                     | 3,251                   | 3,615  | 3,615   |   |  |
| Administration and Associated Activities       | 31,237                  | -7,214,983                                   | -7,214,983  | 229,847                                     | 229,847  |
| Support of Other Nations                       | 4,626                   | 4,569  | 4,569   |   |  |
| Space  |                         | 3,165,909                                    | 3,165,909   |   |  |
| Classified Programs                            | 12,971,689              | 14,938,002                                   | 14,938,002  | 112,408                                     | 112,408  |
| Total Research, Development, Test & Evaluation | 28,381,681              | 27,577,477                                   | 27,577,477  | 365,205                                     | 365,205  |

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 FY 2019 President's Budget  
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 Total Obligational Authority  
 (Dollars in Thousands)

01 Feb 2018

|  | FY 2018<br>Emergency<br>Requests**<br>Emergency | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>Emergency | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency** | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO +<br>Emergency |
|--|---|---|---------------------------------------|--|---|--|
| Summary Recap of Budget Activities             |   |   |                                       |  |   |  |
| Summary Recap of FYDP Programs                 |   |   |                                       |  |   |  |
| Strategic Forces                               |   |   |                                       | 825,038  |   | 825,038  |
| General Purpose Forces                         |   |   |                                       | 2,972,115  |   | 2,972,115  |
| Intelligence and Communications                | 90,500  | -90,500   |                                       | 1,562,825  | -90,500   | 1,472,325  |
| Mobility Forces                                |   |   |                                       | 602,629  |   | 602,629  |
| Research and Development                       |   |   |                                       | 10,721,789   |   | 10,721,789   |
| Central Supply and Maintenance                 |   |   |                                       | 109,419  |   | 109,419  |
| Training Medical and Other                     |   |   |                                       | 3,615  |   | 3,615  |
| Administration and Associated Activities       |   |   |                                       | -6,985,136   |   | -6,985,136   |
| Support of Other Nations                       |   |   |                                       | 4,569  |   | 4,569  |
| Space  |   |   |                                       | 3,165,909  |   | 3,165,909  |
| Classified Programs                            | 165,244   | -165,244  |                                       | 15,215,654   | -165,244  | 15,050,410   |
| Total Research, Development, Test & Evaluation | 255,744   | -255,744  |                                       | 28,198,426   | -255,744  | 27,942,682   |

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Department of the Air Force  
 FY 2019 President's Budget  
 Exhibit R-1 FY 2019 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

01 Feb 2018

| Summary Recap of Budget Activities<br>-----    | FY 2019<br>Base | FY 2019<br>OCO | FY 2019<br>Total |
|--|-----------------|----------------|------------------|
| -----  | -----           | -----          | -----            |
| Summary Recap of FYDP Programs<br>-----        |                 |                |                  |
| Strategic Forces                               | 1,064,875       |                | 1,064,875        |
| General Purpose Forces                         | 3,287,655       | 53,049         | 3,340,704        |
| Intelligence and Communications                | 1,394,674       | 54,600         | 1,449,274        |
| Mobility Forces                                | 916,041         |                | 916,041          |
| Research and Development                       | 12,027,571      |                | 12,027,571       |
| Central Supply and Maintenance                 | 97,134          |                | 97,134           |
| Training Medical and Other                     | 3,578           |                | 3,578            |
| Administration and Associated Activities       | 130,882         |                | 130,882          |
| Support of Other Nations                       | 3,998           |                | 3,998            |
| Space  | 4,717,811       | 18,495         | 4,736,306        |
| Classified Programs                            | 16,247,930      | 474,321        | 16,722,251       |
| Total Research, Development, Test & Evaluation | 39,892,149      | 600,465        | 40,492,614       |

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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item  | Act | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>OCO | S e c |
|---------|------------------------|---|-----|-------------------------|--|---|---|--|-------|
| --      | -----                  | ----  | --- | -----                   | -----  | -----   | -----                                       | -----  | -     |
| 1       | 0601102F               | Defense Research Sciences   | 01  | 370,595                 | 342,919                                      | 342,919   |   |  | U     |
| 2       | 0601103F               | University Research Initiatives                                   | 01  | 137,775                 | 147,923                                      | 147,923   |   |  | U     |
| 3       | 0601108F               | High Energy Laser Research Initiatives                            | 01  | 13,224                  | 14,417                                       | 14,417  |   |  | U     |
|         |                        |   |     | -----                   | -----  | -----   | -----                                       | -----  |       |
|         |                        | Basic Research  |     | 521,594                 | 505,259                                      | 505,259   |   |  |       |
| 4       | 0602102F               | Materials   | 02  | 158,243                 | 124,264                                      | 124,264   |   |  | U     |
| 5       | 0602201F               | Aerospace Vehicle Technologies                                    | 02  | 130,923                 | 124,678                                      | 124,678   |   |  | U     |
| 6       | 0602202F               | Human Effectiveness Applied Research                              | 02  | 110,012                 | 108,784                                      | 108,784   |   |  | U     |
| 7       | 0602203F               | Aerospace Propulsion  | 02  | 192,583                 | 192,695                                      | 192,695   |   |  | U     |
| 8       | 0602204F               | Aerospace Sensors   | 02  | 160,339                 | 152,782                                      | 152,782   |   |  | U     |
| 9       | 0602298F               | Science and Technology Management - Major Headquarters Activities | 02  |                         | 8,353  | 8,353   |   |  | U     |
| 10      | 0602601F               | Space Technology  | 02  | 119,670                 | 116,503                                      | 116,503   |   |  | U     |
| 11      | 0602602F               | Conventional Munitions  | 02  | 110,074                 | 112,195                                      | 112,195   |   |  | U     |
| 12      | 0602605F               | Directed Energy Technology  | 02  | 127,365                 | 132,993                                      | 132,993   |   |  | U     |
| 13      | 0602788F               | Dominant Information Sciences and Methods                         | 02  | 165,517                 | 167,818                                      | 167,818   |   |  | U     |
| 14      | 0602890F               | High Energy Laser Research  | 02  | 39,545                  | 43,049                                       | 43,049  |   |  | U     |
| 15      | 1206601F               | Space Technology  | 02  |                         |  |   |   |  | U     |
|         |                        |   |     | -----                   | -----  | -----   | -----                                       | -----  |       |
|         |                        | Applied Research  |     | 1,314,271               | 1,284,114                                    | 1,284,114   |   |  |       |

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|-------------|---------------------------------------|----|--------|--------|--------|---|
| 16 0603112F | Advanced Materials for Weapon Systems | 03 | 54,095 | 37,856 | 37,856 | U |
|-------------|---------------------------------------|----|--------|--------|--------|---|

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Department of the Air Force  
 FY 2019 President's Budget  
 Exhibit R-1 FY 2019 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line | Program<br>Element<br>No Number | Item   | Act | FY 2018<br>Emergency<br>Requests**<br>Emergency | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>Emergency | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency** | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO + e<br>Emergency | S<br>c |
|------|---------------------------------|--|-----|---|---|---------------------------------------|--|---|--|--------|
| ---  | -----                           | ----   | --- | -----   | -----   | -----                                 | -----  | -----   | -----  | -      |
| 1    | 0601102F                        | Defense Research Sciences  | 01  |   |   |                                       | 342,919  |   | 342,919  | U      |
| 2    | 0601103F                        | University Research Initiatives                                      | 01  |   |   |                                       | 147,923  |   | 147,923  | U      |
| 3    | 0601108F                        | High Energy Laser Research<br>Initiatives                            | 01  |   |   |                                       | 14,417   |   | 14,417   | U      |
|      |                                 |  |     | -----   | -----   | -----                                 | -----  | -----   | -----  |        |
|      |                                 | Basic Research   |     |   |   |                                       | 505,259  |   | 505,259  |        |
| 4    | 0602102F                        | Materials  | 02  |   |   |                                       | 124,264  |   | 124,264  | U      |
| 5    | 0602201F                        | Aerospace Vehicle Technologies                                       | 02  |   |   |                                       | 124,678  |   | 124,678  | U      |
| 6    | 0602202F                        | Human Effectiveness Applied Research                                 | 02  |   |   |                                       | 108,784  |   | 108,784  | U      |
| 7    | 0602203F                        | Aerospace Propulsion   | 02  |   |   |                                       | 192,695  |   | 192,695  | U      |
| 8    | 0602204F                        | Aerospace Sensors  | 02  |   |   |                                       | 152,782  |   | 152,782  | U      |
| 9    | 0602298F                        | Science and Technology Management -<br>Major Headquarters Activities | 02  |   |   |                                       | 8,353  |   | 8,353  | U      |
| 10   | 0602601F                        | Space Technology   | 02  |   |   |                                       | 116,503  |   | 116,503  | U      |
| 11   | 0602602F                        | Conventional Munitions   | 02  |   |   |                                       | 112,195  |   | 112,195  | U      |
| 12   | 0602605F                        | Directed Energy Technology   | 02  |   |   |                                       | 132,993  |   | 132,993  | U      |
| 13   | 0602788F                        | Dominant Information Sciences and<br>Methods                         | 02  |   |   |                                       | 167,818  |   | 167,818  | U      |
| 14   | 0602890F                        | High Energy Laser Research   | 02  |   |   |                                       | 43,049   |   | 43,049   | U      |
| 15   | 1206601F                        | Space Technology   | 02  |   |   |                                       |  |   |  | U      |
|      |                                 |  |     | -----   | -----   | -----                                 | -----  | -----   | -----  |        |
|      |                                 | Applied Research   |     |   |   |                                       | 1,284,114  |   | 1,284,114  |        |

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|-------------|---------------------------------------|----|--------|----------|
| 16 0603112F | Advanced Materials for Weapon Systems | 03 | 37,856 | 37,856 U |
|-------------|---------------------------------------|----|--------|----------|

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Department of the Air Force  
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Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item  | Act | FY 2019 Base | FY 2019 OCO | FY 2019 Total | Se c |
|---------|------------------------|---|-----|--------------|-------------|---------------|------|
| --      | -----                  | ----  | --- | -----        | -----       | -----         | -    |
| 1       | 0601102F               | Defense Research Sciences   | 01  | 348,322      |             | 348,322       | U    |
| 2       | 0601103F               | University Research Initiatives                                   | 01  | 154,991      |             | 154,991       | U    |
| 3       | 0601108F               | High Energy Laser Research Initiatives                            | 01  | 14,506       |             | 14,506        | U    |
|         |                        |   |     | -----        | -----       | -----         |      |
|         |                        | Basic Research  |     | 517,819      |             | 517,819       |      |
| 4       | 0602102F               | Materials   | 02  | 125,373      |             | 125,373       | U    |
| 5       | 0602201F               | Aerospace Vehicle Technologies                                    | 02  | 130,547      |             | 130,547       | U    |
| 6       | 0602202F               | Human Effectiveness Applied Research                              | 02  | 112,518      |             | 112,518       | U    |
| 7       | 0602203F               | Aerospace Propulsion  | 02  | 190,919      |             | 190,919       | U    |
| 8       | 0602204F               | Aerospace Sensors   | 02  | 166,534      |             | 166,534       | U    |
| 9       | 0602298F               | Science and Technology Management - Major Headquarters Activities | 02  | 8,288        |             | 8,288         | U    |
| 10      | 0602601F               | Space Technology  | 02  |              |             |               | U    |
| 11      | 0602602F               | Conventional Munitions  | 02  | 112,841      |             | 112,841       | U    |
| 12      | 0602605F               | Directed Energy Technology  | 02  | 141,898      |             | 141,898       | U    |
| 13      | 0602788F               | Dominant Information Sciences and Methods                         | 02  | 162,420      |             | 162,420       | U    |
| 14      | 0602890F               | High Energy Laser Research  | 02  | 43,359       |             | 43,359        | U    |
| 15      | 1206601F               | Space Technology  | 02  | 117,645      |             | 117,645       | U    |
|         |                        |   |     | -----        | -----       | -----         |      |
|         |                        | Applied Research  |     | 1,312,342    |             | 1,312,342     |      |

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|-------------|--|----|--------|--------|---|
| 16 0603112F | Advanced Materials for Weapon<br>Systems | 03 | 34,426 | 34,426 | U |
|-------------|--|----|--------|--------|---|

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Department of the Air Force  
FY 2019 President's Budget  
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Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line | Program<br>Element<br>No Number | Item  | Act | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>OCO | S<br>e<br>c |
|------|---------------------------------|---|-----|-------------------------|--|---|---|--|-------------|
| --   | -----                           | ----  | --- | -----                   | -----  | -----   | -----                                       | -----  | -           |
| 17   | 0603199F                        | Sustainment Science and Technology (S&T)            | 03  | 19,994                  | 22,811                                       | 22,811  |   |  | U           |
| 18   | 0603203F                        | Advanced Aerospace Sensors                          | 03  | 39,854                  | 40,978                                       | 40,978  |   |  | U           |
| 19   | 0603211F                        | Aerospace Technology Dev/Demo                       | 03  | 128,358                 | 115,966                                      | 115,966   |   |  | U           |
| 20   | 0603216F                        | Aerospace Propulsion and Power Technology           | 03  | 104,695                 | 104,499                                      | 104,499   |   |  | U           |
| 21   | 0603270F                        | Electronic Combat Technology                        | 03  | 64,591                  | 60,551                                       | 60,551  |   |  | U           |
| 22   | 0603401F                        | Advanced Spacecraft Technology                      | 03  | 69,338                  | 58,910                                       | 58,910  |   |  | U           |
| 23   | 0603444F                        | Mauui Space Surveillance System (MSSS)              | 03  | 11,493                  | 10,433                                       | 10,433  |   |  | U           |
| 24   | 0603456F                        | Human Effectiveness Advanced Technology Development | 03  | 25,784                  | 33,635                                       | 33,635  |   |  | U           |
| 25   | 0603601F                        | Conventional Weapons Technology                     | 03  | 105,487                 | 167,415                                      | 167,415   |   |  | U           |
| 26   | 0603605F                        | Advanced Weapons Technology                         | 03  | 47,358                  | 45,502                                       | 45,502  |   |  | U           |
| 27   | 0603680F                        | Manufacturing Technology Program                    | 03  | 62,272                  | 46,450                                       | 46,450  |   |  | U           |
| 28   | 0603788F                        | Battlespace Knowledge Development and Demonstration | 03  | 52,274                  | 49,011                                       | 49,011  |   |  | U           |
| 29   | 0303467F                        | SENSR Spectrum Pipeline SRF                         | 03  | 6,904                   |  |   |   |  | U           |
|      |                                 | Advanced Technology Development                     |     | 792,497                 | 794,017                                      | 794,017   |   |  |             |
| 30   | 0603260F                        | Intelligence Advanced Development                   | 04  | 5,598                   | 5,652  | 5,652   |   |  | U           |
| 31   | 0603438F                        | Space Control Technology                            | 04  | 8,506                   |  |   | 7,800                                       | 7,800  | U           |

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|-------------|----------------------------------|----|--------|--------|--------|---|
| 32 0603742F | Combat Identification Technology | 04 | 23,551 | 24,397 | 24,397 | U |
|-------------|----------------------------------|----|--------|--------|--------|---|

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Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line | Program<br>Element<br>No Number | Item  | Act | FY 2018<br>Emergency<br>Requests** | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>Emergency | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency** | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO + e | S |
|------|---------------------------------|---|-----|------------------------------------|---|---------------------------------------|--|---|---|---|
| --   | -----                           | ----  | --- | -----                              | -----   | -----                                 | -----  | -----   | -----   | - |
| 17   | 0603199F                        | Sustainment Science and Technology (S&T)            | 03  |                                    |   |                                       | 22,811   |   | 22,811  | U |
| 18   | 0603203F                        | Advanced Aerospace Sensors                          | 03  |                                    |   |                                       | 40,978   |   | 40,978  | U |
| 19   | 0603211F                        | Aerospace Technology Dev/Demo                       | 03  |                                    |   |                                       | 115,966  |   | 115,966   | U |
| 20   | 0603216F                        | Aerospace Propulsion and Power Technology           | 03  |                                    |   |                                       | 104,499  |   | 104,499   | U |
| 21   | 0603270F                        | Electronic Combat Technology                        | 03  |                                    |   |                                       | 60,551   |   | 60,551  | U |
| 22   | 0603401F                        | Advanced Spacecraft Technology                      | 03  |                                    |   |                                       | 58,910   |   | 58,910  | U |
| 23   | 0603444F                        | Mauai Space Surveillance System (MSSS)              | 03  |                                    |   |                                       | 10,433   |   | 10,433  | U |
| 24   | 0603456F                        | Human Effectiveness Advanced Technology Development | 03  |                                    |   |                                       | 33,635   |   | 33,635  | U |
| 25   | 0603601F                        | Conventional Weapons Technology                     | 03  |                                    |   |                                       | 167,415  |   | 167,415   | U |
| 26   | 0603605F                        | Advanced Weapons Technology                         | 03  |                                    |   |                                       | 45,502   |   | 45,502  | U |
| 27   | 0603680F                        | Manufacturing Technology Program                    | 03  |                                    |   |                                       | 46,450   |   | 46,450  | U |
| 28   | 0603788F                        | Battlespace Knowledge Development and Demonstration | 03  |                                    |   |                                       | 49,011   |   | 49,011  | U |
| 29   | 0303467F                        | SENSR Spectrum Pipeline SRF                         | 03  |                                    |   |                                       |  |   |   | U |
|      |                                 | Advanced Technology Development                     |     |                                    |   |                                       | 794,017  |   | 794,017   |   |
| 30   | 0603260F                        | Intelligence Advanced Development                   | 04  |                                    |   |                                       | 5,652  |   | 5,652   | U |
| 31   | 0603438F                        | Space Control Technology                            | 04  |                                    |   |                                       | 7,800  |   | 7,800   | U |

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|-------------|----------------------------------|----|--------|--------|---|
| 32 0603742F | Combat Identification Technology | 04 | 24,397 | 24,397 | U |
|-------------|----------------------------------|----|--------|--------|---|

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Department of the Air Force  
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 (Dollars in Thousands)

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Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line<br>No | Program<br>Element<br>Number | Item  | Act | FY 2019<br>Base | FY 2019<br>OCO | FY 2019<br>Total | S<br>e<br>c |
|------------|------------------------------|---|-----|-----------------|----------------|------------------|-------------|
| --         | -----                        | ----  | --- | -----           | -----          | -----            | -           |
| 17         | 0603199F                     | Sustainment Science and Technology (S&T)            | 03  | 15,150          |                | 15,150           | U           |
| 18         | 0603203F                     | Advanced Aerospace Sensors                          | 03  | 39,968          |                | 39,968           | U           |
| 19         | 0603211F                     | Aerospace Technology Dev/Demo                       | 03  | 121,002         |                | 121,002          | U           |
| 20         | 0603216F                     | Aerospace Propulsion and Power Technology           | 03  | 115,462         |                | 115,462          | U           |
| 21         | 0603270F                     | Electronic Combat Technology                        | 03  | 55,319          |                | 55,319           | U           |
| 22         | 0603401F                     | Advanced Spacecraft Technology                      | 03  | 54,895          |                | 54,895           | U           |
| 23         | 0603444F                     | Maui Space Surveillance System (MSSS)               | 03  | 10,674          |                | 10,674           | U           |
| 24         | 0603456F                     | Human Effectiveness Advanced Technology Development | 03  | 36,463          |                | 36,463           | U           |
| 25         | 0603601F                     | Conventional Weapons Technology                     | 03  | 194,981         |                | 194,981          | U           |
| 26         | 0603605F                     | Advanced Weapons Technology                         | 03  | 43,368          |                | 43,368           | U           |
| 27         | 0603680F                     | Manufacturing Technology Program                    | 03  | 42,025          |                | 42,025           | U           |
| 28         | 0603788F                     | Battlespace Knowledge Development and Demonstration | 03  | 51,064          |                | 51,064           | U           |
| 29         | 0303467F                     | SENSR Spectrum Pipeline SRF                         | 03  |                 |                |                  | U           |
|            |                              | Advanced Technology Development                     |     | 814,797         |                | 814,797          |             |
| 30         | 0603260F                     | Intelligence Advanced Development                   | 04  | 5,568           |                | 5,568            | U           |
| 31         | 0603438F                     | Space Control Technology                            | 04  |                 |                |                  | U           |

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32 0603742F    Combat Identification Technology    04    18,194    18,194    U

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Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item  | Act | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests+<br>with CR Adj<br>OCO | S<br>e<br>c |
|---------|------------------------|---|-----|-------------------------|--|---|---|--|-------------|
| --      | -----                  | ----  | --- | -----                   | -----  | -----   | -----                                       | -----  | -           |
| 33      | 0603790F               | NATO Research and Development                                   | 04  | 4,174                   | 3,851  | 3,851   |   |  | U           |
| 34      | 0603830F               | Space Security and Defense Program                              | 04  | 32,399                  |  |   |   |  | U           |
| 35      | 0603851F               | Intercontinental Ballistic Missile<br>- Dem/Val                 | 04  | 99,949                  | 10,736                                       | 10,736  |   |  | U           |
| 36      | 0603859F               | Pollution Prevention - Dem/Val                                  | 04  | 3,500                   | 2  | 2   |   |  | U           |
| 37      | 0604015F               | Long Range Strike - Bomber                                      | 04  | 1,290,307               | 2,003,580                                    | 2,003,580   |   |  | U           |
| 38      | 0604201F               | Integrated Avionics Planning and<br>Development                 | 04  |                         | 65,458                                       | 65,458  |   |  | U           |
| 39      | 0604257F               | Advanced Technology and Sensors                                 | 04  | 34,818                  | 68,719                                       | 68,719  |   |  | U           |
| 40      | 0604288F               | National Airborne Ops Center (NAOC)<br>Recap                    | 04  |                         | 7,850  | 7,850   |   |  | U           |
| 41      | 0604317F               | Technology Transfer   | 04  | 8,080                   | 3,295  | 3,295   |   |  | U           |
| 42      | 0604327F               | Hard and Deeply Buried Target<br>Defeat System (HDBTDS) Program | 04  | 52,706                  | 17,365                                       | 17,365  |   |  | U           |
| 43      | 0604414F               | Cyber Resiliency of Weapon<br>Systems-ACS                       | 04  |                         | 32,253                                       | 32,253  |   |  | U           |
| 44      | 0604422F               | Weather System Follow-on  | 04  | 82,506                  |  |   |   |  | U           |
| 45      | 0604425F               | Space Situation Awareness Systems                               | 04  | 9,901                   |  |   |   |  | U           |
| 46      | 0604776F               | Deployment & Distribution<br>Enterprise R&D                     | 04  | 25,890                  | 26,222                                       | 26,222  |   |  | U           |
| 47      | 0604857F               | Operationally Responsive Space                                  | 04  | 17,976                  |  |   |   |  | U           |

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|-------------|----------------------------------|----|---------|---------|---------|---|
| 48 0604858F | Tech Transition Program          | 04 | 378,126 | 840,650 | 840,650 | U |
| 49 0605230F | Ground Based Strategic Deterrent | 04 | 109,260 | 215,721 | 215,721 | U |

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Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line | Program<br>Element<br>No Number | Item<br>-----   | Act<br>--- | FY 2018<br>Emergency<br>Requests**<br>----- | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs<br>----- | FY 2018<br>Remaining Req<br>Emergency<br>----- | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency**<br>----- | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs<br>----- | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO + e<br>Emergency<br>----- | S<br>c<br>- |
|------|---------------------------------|---|------------|---|--|--|---|--|---|-------------|
| 33   | 0603790F                        | NATO Research and Development                                   | 04         |   |  |  | 3,851   |  | 3,851   | U           |
| 34   | 0603830F                        | Space Security and Defense Program                              | 04         |   |  |  |   |  |   | U           |
| 35   | 0603851F                        | Intercontinental Ballistic Missile<br>- Dem/Val                 | 04         |   |  |  | 10,736  |  | 10,736  | U           |
| 36   | 0603859F                        | Pollution Prevention - Dem/Val                                  | 04         |   |  |  | 2   |  | 2   | U           |
| 37   | 0604015F                        | Long Range Strike - Bomber                                      | 04         |   |  |  | 2,003,580   |  | 2,003,580   | U           |
| 38   | 0604201F                        | Integrated Avionics Planning and<br>Development                 | 04         |   |  |  | 65,458  |  | 65,458  | U           |
| 39   | 0604257F                        | Advanced Technology and Sensors                                 | 04         |   |  |  | 68,719  |  | 68,719  | U           |
| 40   | 0604288F                        | National Airborne Ops Center (NAOC)<br>Recap                    | 04         |   |  |  | 7,850   |  | 7,850   | U           |
| 41   | 0604317F                        | Technology Transfer   | 04         |   |  |  | 3,295   |  | 3,295   | U           |
| 42   | 0604327F                        | Hard and Deeply Buried Target<br>Defeat System (HDBTDS) Program | 04         |   |  |  | 17,365  |  | 17,365  | U           |
| 43   | 0604414F                        | Cyber Resiliency of Weapon<br>Systems-ACS                       | 04         |   |  |  | 32,253  |  | 32,253  | U           |
| 44   | 0604422F                        | Weather System Follow-on  | 04         |   |  |  |   |  |   | U           |
| 45   | 0604425F                        | Space Situation Awareness Systems                               | 04         |   |  |  |   |  |   | U           |
| 46   | 0604776F                        | Deployment & Distribution<br>Enterprise R&D                     | 04         |   |  |  | 26,222  |  | 26,222  | U           |
| 47   | 0604857F                        | Operationally Responsive Space                                  | 04         |   |  |  |   |  |   | U           |

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|-------------|----------------------------------|----|---------|---------|---|
| 48 0604858F | Tech Transition Program          | 04 | 840,650 | 840,650 | U |
| 49 0605230F | Ground Based Strategic Deterrent | 04 | 215,721 | 215,721 | U |

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Department of the Air Force  
 FY 2019 President's Budget  
 Exhibit R-1 FY 2019 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item   | Act | FY 2019 Base | FY 2019 OCO | FY 2019 Total | Se c |
|---------|------------------------|--|-----|--------------|-------------|---------------|------|
| --      | -----                  | ----   | --- | -----        | -----       | -----         | -    |
| 33      | 0603790F               | NATO Research and Development                                | 04  | 2,305        |             | 2,305         | U    |
| 34      | 0603830F               | Space Security and Defense Program                           | 04  |              |             |               | U    |
| 35      | 0603851F               | Intercontinental Ballistic Missile - Dem/Val                 | 04  | 41,856       |             | 41,856        | U    |
| 36      | 0603859F               | Pollution Prevention - Dem/Val                               | 04  |              |             |               | U    |
| 37      | 0604015F               | Long Range Strike - Bomber                                   | 04  | 2,314,196    |             | 2,314,196     | U    |
| 38      | 0604201F               | Integrated Avionics Planning and Development                 | 04  | 14,894       |             | 14,894        | U    |
| 39      | 0604257F               | Advanced Technology and Sensors                              | 04  | 34,585       |             | 34,585        | U    |
| 40      | 0604288F               | National Airborne Ops Center (NAOC) Recap                    | 04  | 9,740        |             | 9,740         | U    |
| 41      | 0604317F               | Technology Transfer  | 04  | 12,960       |             | 12,960        | U    |
| 42      | 0604327F               | Hard and Deeply Buried Target Defeat System (HDBTDS) Program | 04  | 71,501       |             | 71,501        | U    |
| 43      | 0604414F               | Cyber Resiliency of Weapon Systems-ACS                       | 04  | 62,618       |             | 62,618        | U    |
| 44      | 0604422F               | Weather System Follow-on                                     | 04  |              |             |               | U    |
| 45      | 0604425F               | Space Situation Awareness Systems                            | 04  |              |             |               | U    |
| 46      | 0604776F               | Deployment & Distribution Enterprise R&D                     | 04  | 28,350       |             | 28,350        | U    |
| 47      | 0604857F               | Operationally Responsive Space                               | 04  |              |             |               | U    |

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|             |                                  |    |           |           |   |
|-------------|----------------------------------|----|-----------|-----------|---|
| 48 0604858F | Tech Transition Program          | 04 | 1,186,075 | 1,186,075 | U |
| 49 0605230F | Ground Based Strategic Deterrent | 04 | 345,041   | 345,041   | U |

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Department of the Air Force  
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Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item  | Act | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests+<br>with CR Adj<br>OCO | S<br>e<br>c |
|---------|------------------------|---|-----|-------------------------|--|---|---|--|-------------|
| --      | -----                  | ----  | --- | -----                   | -----  | -----   | -----                                       | -----  | -           |
| 50      | 0207110F               | Next Generation Air Dominance                                 | 04  | 22,272                  | 294,746                                      | 294,746   |   |  | U           |
| 51      | 0207455F               | Three Dimensional Long-Range Radar<br>(3DELRR)                | 04  | 47,166                  | 10,645                                       | 10,645  |   |  | U           |
| 52      | 0208099F               | Unified Platform (UP)   | 04  |                         |  |   |   |  | U           |
| 53      | 0305164F               | NAVSTAR Global Positioning System<br>(User Equipment) (SPACE) | 04  | 297,975                 |  |   |   |  | U           |
| 54      | 0305236F               | Common Data Link Executive Agent<br>(CDL EA)                  | 04  | 40,293                  | 41,509                                       | 41,509  |   |  | U           |
| 55      | 0305601F               | Mission Partner Environments                                  | 04  |                         |  |   |   |  | U           |
| 56      | 0306250F               | Cyber Operations Technology<br>Development                    | 04  | 205,048                 | 226,287                                      | 226,287   | 5,400                                       | 5,400  | U           |
| 57      | 0306415F               | Enabled Cyber Activities                                      | 04  | 15,842                  | 16,687                                       | 16,687  |   |  | U           |
| 58      | 0408011F               | Special Tactics / Combat Control                              | 04  |                         | 4,500  | 4,500   |   |  | U           |
| 59      | 0901410F               | Contracting Information Technology<br>System                  | 04  | 6,938                   | 15,867                                       | 15,867  |   |  | U           |
| 60      | 1203164F               | NAVSTAR Global Positioning System<br>(User Equipment) (SPACE) | 04  |                         | 253,939                                      | 253,939   |   |  | U           |
| 61      | 1203710F               | EO/IR Weather Systems   | 04  |                         | 10,000                                       | 10,000  |   |  | U           |
| 62      | 1206422F               | Weather System Follow-on                                      | 04  |                         | 112,088                                      | 112,088   |   |  | U           |
| 63      | 1206425F               | Space Situation Awareness Systems                             | 04  |                         | 34,764                                       | 34,764  |   |  | U           |
| 64      | 1206434F               | Midterm Polar MILSATCOM System                                | 04  |                         | 63,092                                       | 63,092  |   |  | U           |

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|----|----------|------------------------------------|----|--------|--------|---|
| 65 | 1206438F | Space Control Technology           | 04 | 7,842  | 7,842  | U |
| 66 | 1206730F | Space Security and Defense Program | 04 | 41,385 | 41,385 | U |

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Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line | Program<br>Element<br>No Number | Item  | Act | FY 2018<br>Emergency<br>Requests** | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>Emergency | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency** | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO +<br>Emergency | S |
|------|---------------------------------|---|-----|------------------------------------|---|---------------------------------------|--|---|--|---|
| --   | -----                           | ----  | --- | -----                              | -----   | -----                                 | -----  | -----   | -----  | - |
| 50   | 0207110F                        | Next Generation Air Dominance                                 | 04  |                                    |   |                                       | 294,746  |   | 294,746  | U |
| 51   | 0207455F                        | Three Dimensional Long-Range Radar<br>(3DELRR)                | 04  |                                    |   |                                       | 10,645   |   | 10,645   | U |
| 52   | 0208099F                        | Unified Platform (UP)   | 04  |                                    |   |                                       |  |   |  | U |
| 53   | 0305164F                        | NAVSTAR Global Positioning System<br>(User Equipment) (SPACE) | 04  |                                    |   |                                       |  |   |  | U |
| 54   | 0305236F                        | Common Data Link Executive Agent<br>(CDL EA)                  | 04  |                                    |   |                                       | 41,509   |   | 41,509   | U |
| 55   | 0305601F                        | Mission Partner Environments                                  | 04  |                                    |   |                                       |  |   |  | U |
| 56   | 0306250F                        | Cyber Operations Technology<br>Development                    | 04  | 90,500                             | -90,500   |                                       | 322,187  | -90,500   | 231,687  | U |
| 57   | 0306415F                        | Enabled Cyber Activities                                      | 04  |                                    |   |                                       | 16,687   |   | 16,687   | U |
| 58   | 0408011F                        | Special Tactics / Combat Control                              | 04  |                                    |   |                                       | 4,500  |   | 4,500  | U |
| 59   | 0901410F                        | Contracting Information Technology<br>System                  | 04  |                                    |   |                                       | 15,867   |   | 15,867   | U |
| 60   | 1203164F                        | NAVSTAR Global Positioning System<br>(User Equipment) (SPACE) | 04  |                                    |   |                                       | 253,939  |   | 253,939  | U |
| 61   | 1203710F                        | EO/IR Weather Systems   | 04  |                                    |   |                                       | 10,000   |   | 10,000   | U |
| 62   | 1206422F                        | Weather System Follow-on                                      | 04  |                                    |   |                                       | 112,088  |   | 112,088  | U |
| 63   | 1206425F                        | Space Situation Awareness Systems                             | 04  |                                    |   |                                       | 34,764   |   | 34,764   | U |
| 64   | 1206434F                        | Midterm Polar MILSATCOM System                                | 04  |                                    |   |                                       | 63,092   |   | 63,092   | U |

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|    |          |                                    |    |        |        |   |
|----|----------|------------------------------------|----|--------|--------|---|
| 65 | 1206438F | Space Control Technology           | 04 | 7,842  | 7,842  | U |
| 66 | 1206730F | Space Security and Defense Program | 04 | 41,385 | 41,385 | U |

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| Line No | Program Element Number | Item   | Act | FY 2019 Base | FY 2019 OCO | FY 2019 Total | Se c |
|---------|------------------------|--|-----|--------------|-------------|---------------|------|
| --      | -----                  | ----   | --- | -----        | -----       | -----         | -    |
| 50      | 0207110F               | Next Generation Air Dominance                              | 04  | 503,997      |             | 503,997       | U    |
| 51      | 0207455F               | Three Dimensional Long-Range Radar (3DELRR)                | 04  | 40,326       |             | 40,326        | U    |
| 52      | 0208099F               | Unified Platform (UP)                                      | 04  | 29,800       |             | 29,800        | U    |
| 53      | 0305164F               | NAVSTAR Global Positioning System (User Equipment) (SPACE) | 04  |              |             |               | U    |
| 54      | 0305236F               | Common Data Link Executive Agent (CDL EA)                  | 04  | 41,880       |             | 41,880        | U    |
| 55      | 0305601F               | Mission Partner Environments                               | 04  | 10,074       |             | 10,074        | U    |
| 56      | 0306250F               | Cyber Operations Technology Development                    | 04  | 253,825      |             | 253,825       | U    |
| 57      | 0306415F               | Enabled Cyber Activities                                   | 04  | 16,325       |             | 16,325        | U    |
| 58      | 0408011F               | Special Tactics / Combat Control                           | 04  |              |             |               | U    |
| 59      | 0901410F               | Contracting Information Technology System                  | 04  | 17,577       |             | 17,577        | U    |
| 60      | 1203164F               | NAVSTAR Global Positioning System (User Equipment) (SPACE) | 04  | 286,629      |             | 286,629       | U    |
| 61      | 1203710F               | EO/IR Weather Systems                                      | 04  | 7,940        |             | 7,940         | U    |
| 62      | 1206422F               | Weather System Follow-on                                   | 04  | 138,052      |             | 138,052       | U    |
| 63      | 1206425F               | Space Situation Awareness Systems                          | 04  | 39,338       |             | 39,338        | U    |
| 64      | 1206434F               | Midterm Polar MILSATCOM System                             | 04  | 383,113      |             | 383,113       | U    |

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|----|----------|------------------------------------|----|--------|-------|--------|---|
| 65 | 1206438F | Space Control Technology           | 04 | 91,018 | 1,100 | 92,118 | U |
| 66 | 1206730F | Space Security and Defense Program | 04 | 45,542 |       | 45,542 | U |

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| Line No | Program Element Number | Item  | Act | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests+<br>with CR Adj<br>OCO | S e c |
|---------|------------------------|---|-----|-------------------------|--|---|---|--|-------|
| --      | -----                  | ----  | --- | -----                   | -----  | -----   | -----                                       | -----  | -     |
| 67      | 1206760F               | Protected Tactical Enterprise Service (PTES)  | 04  |                         | 18,150                                       | 18,150  |   |  | U     |
| 68      | 1206761F               | Protected Tactical Service (PTS)              | 04  |                         | 24,201                                       | 24,201  |   |  | U     |
| 69      | 1206855F               | Protected SATCOM Services (PSCS) - Aggregated | 04  |                         | 16,000                                       | 16,000  |   |  | U     |
| 70      | 1206857F               | Operationally Responsive Space                | 04  |                         | 87,577                                       | 87,577  |   |  | U     |
|         |                        | Advanced Component Development & Prototypes   |     | 2,822,781               | 4,605,030                                    | 4,605,030   | 13,200                                      | 13,200   |       |
| 71      | 0604200F               | Future Advanced Weapon Analysis & Programs    | 05  |                         | 5,100  | 5,100   |   |  | U     |
| 72      | 0604201F               | Integrated Avionics Planning and Development  | 05  |                         | 101,203                                      | 101,203   |   |  | U     |
| 73      | 0604222F               | Nuclear Weapons Support                       | 05  |                         | 3,009  | 3,009   |   |  | U     |
| 74      | 0604270F               | Electronic Warfare Development                | 05  | 4,986                   | 2,241  | 2,241   |   |  | U     |
| 75      | 0604281F               | Tactical Data Networks Enterprise             | 05  | 78,167                  | 38,250                                       | 38,250  |   |  | U     |
| 76      | 0604287F               | Physical Security Equipment                   | 05  | 63,101                  | 19,739                                       | 19,739  |   |  | U     |
| 77      | 0604329F               | Small Diameter Bomb (SDB) - EMD               | 05  | 37,603                  | 38,979                                       | 38,979  |   |  | U     |
| 78      | 0604421F               | Counterspace Systems                          | 05  | 32,618                  |  |   |   |  | U     |
| 79      | 0604425F               | Space Situation Awareness Systems             | 05  | 25,540                  |  |   |   |  | U     |
| 80      | 0604426F               | Space Fence                                   | 05  | 162,510                 |  |   |   |  | U     |
| 81      | 0604429F               | Airborne Electronic Attack                    | 05  | 8,589                   | 7,091  | 7,091   |   |  | U     |

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82 0604441F Space Based Infrared System (SBIRS) 05 161,966  
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| Line | Program<br>Element<br>No Number | Item  | Act | FY 2018<br>Emergency<br>Requests** | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>Emergency | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency** | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO +<br>Emergency | S |
|------|---------------------------------|---|-----|------------------------------------|---|---------------------------------------|--|---|--|---|
| --   | -----                           | ----  | --- | -----                              | -----   | -----                                 | -----  | -----   | -----  | - |
| 67   | 1206760F                        | Protected Tactical Enterprise Service (PTES)  | 04  |                                    |   |                                       | 18,150   |   | 18,150   | U |
| 68   | 1206761F                        | Protected Tactical Service (PTS)              | 04  |                                    |   |                                       | 24,201   |   | 24,201   | U |
| 69   | 1206855F                        | Protected SATCOM Services (PSCS) - Aggregated | 04  |                                    |   |                                       | 16,000   |   | 16,000   | U |
| 70   | 1206857F                        | Operationally Responsive Space                | 04  |                                    |   |                                       | 87,577   |   | 87,577   | U |
|      |                                 | Advanced Component Development & Prototypes   |     | 90,500                             | -90,500   |                                       | 4,708,730  | -90,500   | 4,618,230  |   |
| 71   | 0604200F                        | Future Advanced Weapon Analysis & Programs    | 05  |                                    |   |                                       | 5,100  |   | 5,100  | U |
| 72   | 0604201F                        | Integrated Avionics Planning and Development  | 05  |                                    |   |                                       | 101,203  |   | 101,203  | U |
| 73   | 0604222F                        | Nuclear Weapons Support                       | 05  |                                    |   |                                       | 3,009  |   | 3,009  | U |
| 74   | 0604270F                        | Electronic Warfare Development                | 05  |                                    |   |                                       | 2,241  |   | 2,241  | U |
| 75   | 0604281F                        | Tactical Data Networks Enterprise             | 05  |                                    |   |                                       | 38,250   |   | 38,250   | U |
| 76   | 0604287F                        | Physical Security Equipment                   | 05  |                                    |   |                                       | 19,739   |   | 19,739   | U |
| 77   | 0604329F                        | Small Diameter Bomb (SDB) - EMD               | 05  |                                    |   |                                       | 38,979   |   | 38,979   | U |
| 78   | 0604421F                        | Counterspace Systems                          | 05  |                                    |   |                                       |  |   |  | U |
| 79   | 0604425F                        | Space Situation Awareness Systems             | 05  |                                    |   |                                       |  |   |  | U |
| 80   | 0604426F                        | Space Fence                                   | 05  |                                    |   |                                       |  |   |  | U |
| 81   | 0604429F                        | Airborne Electronic Attack                    | 05  |                                    |   |                                       | 7,091  |   | 7,091  | U |

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82 0604441F Space Based Infrared System (SBIRS) 05  
High EMD

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Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item  | Act | FY 2019 Base | FY 2019 OCO | FY 2019 Total | Se c |
|---------|------------------------|---|-----|--------------|-------------|---------------|------|
| --      | -----                  | ----  | --- | -----        | -----       | -----         | -    |
| 67      | 1206760F               | Protected Tactical Enterprise Service (PTES)  | 04  | 51,419       |             | 51,419        | U    |
| 68      | 1206761F               | Protected Tactical Service (PTS)              | 04  | 29,776       |             | 29,776        | U    |
| 69      | 1206855F               | Protected SATCOM Services (PSCS) - Aggregated | 04  | 29,379       |             | 29,379        | U    |
| 70      | 1206857F               | Operationally Responsive Space                | 04  | 366,050      | 12,395      | 378,445       | U    |
|         |                        | Advanced Component Development & Prototypes   |     | 6,529,943    | 13,495      | 6,543,438     |      |
| 71      | 0604200F               | Future Advanced Weapon Analysis & Programs    | 05  | 39,602       |             | 39,602        | U    |
| 72      | 0604201F               | Integrated Avionics Planning and Development  | 05  | 58,531       |             | 58,531        | U    |
| 73      | 0604222F               | Nuclear Weapons Support                       | 05  | 4,468        |             | 4,468         | U    |
| 74      | 0604270F               | Electronic Warfare Development                | 05  | 1,909        |             | 1,909         | U    |
| 75      | 0604281F               | Tactical Data Networks Enterprise             | 05  | 207,746      |             | 207,746       | U    |
| 76      | 0604287F               | Physical Security Equipment                   | 05  | 14,421       |             | 14,421        | U    |
| 77      | 0604329F               | Small Diameter Bomb (SDB) - EMD               | 05  | 73,158       |             | 73,158        | U    |
| 78      | 0604421F               | Counterspace Systems                          | 05  |              |             |               | U    |
| 79      | 0604425F               | Space Situation Awareness Systems             | 05  |              |             |               | U    |
| 80      | 0604426F               | Space Fence                                   | 05  |              |             |               | U    |
| 81      | 0604429F               | Airborne Electronic Attack                    | 05  | 7,153        |             | 7,153         | U    |

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82 0604441F Space Based Infrared System (SBIRS) 05  
High EMD

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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item   | Act | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests+<br>with CR Adj<br>OCO | S<br>e<br>c |
|---------|------------------------|--|-----|-------------------------|--|---|---|--|-------------|
| --      | -----                  | ----   | --- | -----                   | -----  | -----   | -----                                       | -----  | -           |
| 83      | 0604602F               | Armament/Ordnance Development                              | 05  | 21,507                  | 46,540                                       | 46,540  |   |  | U           |
| 84      | 0604604F               | Submunitions   | 05  | 2,503                   | 2,705  | 2,705   |   |  | U           |
| 85      | 0604617F               | Agile Combat Support                                       | 05  | 49,005                  | 31,240                                       | 31,240  |   |  | U           |
| 86      | 0604618F               | Joint Direct Attack Munition                               | 05  | 9,901                   |  |   |   |  | U           |
| 87      | 0604706F               | Life Support Systems                                       | 05  | 8,710                   | 9,060  | 9,060   |   |  | U           |
| 88      | 0604735F               | Combat Training Ranges                                     | 05  | 57,200                  | 87,350                                       | 87,350  |   |  | U           |
| 89      | 0604800F               | F-35 - EMD   | 05  | 433,903                 | 292,947                                      | 292,947   |   |  | U           |
| 90      | 0604853F               | Evolved Expendable Launch Vehicle<br>Program (SPACE) - EMD | 05  | 381,360                 |  |   |   |  | U           |
| 91      | 0604932F               | Long Range Standoff Weapon                                 | 05  | 102,350                 | 451,290                                      | 451,290   |   |  | U           |
| 92      | 0604933F               | ICBM Fuze Modernization                                    | 05  | 172,946                 | 178,991                                      | 178,991   |   |  | U           |
| 93      | 0605030F               | Joint Tactical Network Center (JTNC)                       | 05  | 1,131                   | 12,736                                       | 12,736  |   |  | U           |
| 94      | 0605031F               | Joint Tactical Network (JTN)                               | 05  |                         | 9,319  | 9,319   |   |  | U           |
| 95      | 0605213F               | F-22 Modernization Increment 3.2B                          | 05  | 67,717                  | 13,600                                       | 13,600  |   |  | U           |
| 96      | 0605214F               | Ground Attack Weapons Fuze<br>Development                  | 05  | 903                     |  |   |   |  | U           |
| 97      | 0605221F               | KC-46  | 05  | 211,509                 | 93,845                                       | 93,845  |   |  | U           |
| 98      | 0605223F               | Advanced Pilot Training                                    | 05  | 7,107                   | 105,999                                      | 105,999   |   |  | U           |
| 99      | 0605229F               | Combat Rescue Helicopter                                   | 05  | 263,327                 | 354,485                                      | 354,485   |   |  | U           |

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|--------------|--------------------------------|----|---------|---|
| 100 0605278F | HC/MC-130 Recap RDT&E          | 05 | 8,707   | U |
| 101 0605431F | Advanced EHF MILSATCOM (SPACE) | 05 | 221,584 | U |

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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line | Program<br>Element<br>No Number | Item   | Act | FY 2018<br>Emergency<br>Requests**<br>Emergency | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>Emergency | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency** | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO + e<br>Emergency | S<br>c |
|------|---------------------------------|--|-----|---|---|---------------------------------------|--|---|--|--------|
| --   | -----                           | ----   | --- | -----   | -----   | -----                                 | -----  | -----   | -----  | -      |
| 83   | 0604602F                        | Armament/Ordnance Development                              | 05  |   |   |                                       | 46,540   |   | 46,540   | U      |
| 84   | 0604604F                        | Submunitions   | 05  |   |   |                                       | 2,705  |   | 2,705  | U      |
| 85   | 0604617F                        | Agile Combat Support                                       | 05  |   |   |                                       | 31,240   |   | 31,240   | U      |
| 86   | 0604618F                        | Joint Direct Attack Munition                               | 05  |   |   |                                       |  |   |  | U      |
| 87   | 0604706F                        | Life Support Systems                                       | 05  |   |   |                                       | 9,060  |   | 9,060  | U      |
| 88   | 0604735F                        | Combat Training Ranges                                     | 05  |   |   |                                       | 87,350   |   | 87,350   | U      |
| 89   | 0604800F                        | F-35 - EMD   | 05  |   |   |                                       | 292,947  |   | 292,947  | U      |
| 90   | 0604853F                        | Evolved Expendable Launch Vehicle<br>Program (SPACE) - EMD | 05  |   |   |                                       |  |   |  | U      |
| 91   | 0604932F                        | Long Range Standoff Weapon                                 | 05  |   |   |                                       | 451,290  |   | 451,290  | U      |
| 92   | 0604933F                        | ICBM Fuze Modernization                                    | 05  |   |   |                                       | 178,991  |   | 178,991  | U      |
| 93   | 0605030F                        | Joint Tactical Network Center (JTNC)                       | 05  |   |   |                                       | 12,736   |   | 12,736   | U      |
| 94   | 0605031F                        | Joint Tactical Network (JTN)                               | 05  |   |   |                                       | 9,319  |   | 9,319  | U      |
| 95   | 0605213F                        | F-22 Modernization Increment 3.2B                          | 05  |   |   |                                       | 13,600   |   | 13,600   | U      |
| 96   | 0605214F                        | Ground Attack Weapons Fuze<br>Development                  | 05  |   |   |                                       |  |   |  | U      |
| 97   | 0605221F                        | KC-46  | 05  |   |   |                                       | 93,845   |   | 93,845   | U      |
| 98   | 0605223F                        | Advanced Pilot Training                                    | 05  |   |   |                                       | 105,999  |   | 105,999  | U      |
| 99   | 0605229F                        | Combat Rescue Helicopter                                   | 05  |   |   |                                       | 354,485  |   | 354,485  | U      |

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|--------------|--------------------------------|----|---|
| 100 0605278F | HC/MC-130 Recap RDT&E          | 05 | U |
| 101 0605431F | Advanced EHF MILSATCOM (SPACE) | 05 | U |

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Department of the Air Force  
 FY 2019 President's Budget  
 Exhibit R-1 FY 2019 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item  | Act | FY 2019 Base | FY 2019 OCO | FY 2019 Total | Se |
|---------|------------------------|---|-----|--------------|-------------|---------------|----|
| --      | -----                  | ----  | --- | -----        | -----       | -----         | c  |
| 83      | 0604602F               | Armament/Ordnance Development                           | 05  | 58,590       |             | 58,590        | U  |
| 84      | 0604604F               | Submunitions  | 05  | 2,990        |             | 2,990         | U  |
| 85      | 0604617F               | Agile Combat Support                                    | 05  | 20,028       |             | 20,028        | U  |
| 86      | 0604618F               | Joint Direct Attack Munition                            | 05  | 15,787       |             | 15,787        | U  |
| 87      | 0604706F               | Life Support Systems                                    | 05  | 8,919        |             | 8,919         | U  |
| 88      | 0604735F               | Combat Training Ranges                                  | 05  | 35,895       |             | 35,895        | U  |
| 89      | 0604800F               | F-35 - EMD  | 05  | 69,001       |             | 69,001        | U  |
| 90      | 0604853F               | Evolved Expendable Launch Vehicle Program (SPACE) - EMD | 05  |              |             |               | U  |
| 91      | 0604932F               | Long Range Standoff Weapon                              | 05  | 614,920      |             | 614,920       | U  |
| 92      | 0604933F               | ICBM Fuze Modernization                                 | 05  | 172,902      |             | 172,902       | U  |
| 93      | 0605030F               | Joint Tactical Network Center (JTNC)                    | 05  |              |             |               | U  |
| 94      | 0605031F               | Joint Tactical Network (JTN)                            | 05  |              |             |               | U  |
| 95      | 0605213F               | F-22 Modernization Increment 3.2B                       | 05  |              |             |               | U  |
| 96      | 0605214F               | Ground Attack Weapons Fuze Development                  | 05  |              |             |               | U  |
| 97      | 0605221F               | KC-46   | 05  | 88,170       |             | 88,170        | U  |
| 98      | 0605223F               | Advanced Pilot Training                                 | 05  | 265,465      |             | 265,465       | U  |
| 99      | 0605229F               | Combat Rescue Helicopter                                | 05  | 457,652      |             | 457,652       | U  |

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|--------------|--------------------------------|----|---|
| 100 0605278F | HC/MC-130 Recap RDT&E          | 05 | U |
| 101 0605431F | Advanced EHF MILSATCOM (SPACE) | 05 | U |

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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item   | Act | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests+<br>with CR Adj<br>OCO | S<br>e<br>c |
|---------|------------------------|--|-----|-------------------------|--|---|---|--|-------------|
| --      | -----                  | ----   | --- | -----                   | -----  | -----   | -----                                       | -----  | -           |
| 102     | 0605432F               | Polar MILSATCOM (SPACE)                      | 05  | 44,306                  |  |   |   |  | U           |
| 103     | 0605433F               | Wideband Global SATCOM (SPACE)               | 05  | 73,901                  |  |   |   |  | U           |
| 104     | 0605458F               | Air & Space Ops Center 10.2 RDT&E            | 05  | 21,109                  | 119,745                                      | 119,745   |   |  | U           |
| 105     | 0605830F               | Acq Workforce- Global Battle Mgmt            | 05  |                         |  |   |   |  | U           |
| 106     | 0605931F               | B-2 Defensive Management System              | 05  | 278,437                 | 194,570                                      | 194,570   |   |  | U           |
| 107     | 0101125F               | Nuclear Weapons Modernization                | 05  | 131,063                 | 91,237                                       | 91,237  |   |  | U           |
| 108     | 0207171F               | F-15 EPAWSS                                  | 05  | 241,495                 | 209,847                                      | 209,847   |   |  | U           |
| 109     | 0207328F               | Stand In Attack Weapon                       | 05  |                         | 3,400  | 3,400   |   |  | U           |
| 110     | 0207423F               | Advanced Communications Systems              | 05  |                         |  |   |   |  | U           |
| 111     | 0207701F               | Full Combat Mission Training                 | 05  | 10,809                  | 16,727                                       | 16,727  |   |  | U           |
| 112     | 0303267F               | Auctioned Spectrum Relocation Fund           | 05  | 54,499                  |  |   |   |  | U           |
| 113     | 0303367F               | Spectrum Access Research and Development     | 05  | 62,053                  |  |   |   |  | U           |
| 114     | 0305176F               | Combat Survivor Evader Locator               | 05  | 30,282                  |  |   |   |  | U           |
| 115     | 0307581F               | JSTARS Recap                                 | 05  | 113,334                 | 417,201                                      | 417,201   |   |  | U           |
| 116     | 0401310F               | C-32 Executive Transport Recapitalization    | 05  |                         | 6,017  | 6,017   |   |  | U           |
| 117     | 0401319F               | Presidential Aircraft Recapitalization (PAR) | 05  | 311,252                 | 434,069                                      | 434,069   |   |  | U           |
| 118     | 0701212F               | Automated Test Systems                       | 05  | 14,029                  | 18,528                                       | 18,528  |   |  | U           |

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|--------------|--------------------------------|----|--------|--------|---|
| 119 1203176F | Combat Survivor Evader Locator | 05 | 24,967 | 24,967 | U |
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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line | Program<br>Element<br>No Number | Item  | Act | FY 2018<br>Emergency<br>Requests** | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>Emergency | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency** | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO + e<br>Emergency | S<br>c |
|------|---------------------------------|---|-----|------------------------------------|---|---------------------------------------|--|---|--|--------|
| --   | -----                           | ----  | --- | -----                              | -----   | -----                                 | -----  | -----   | -----  | -      |
| 102  | 0605432F                        | Polar MILSATCOM (SPACE)                         | 05  |                                    |   |                                       |  |   |  | U      |
| 103  | 0605433F                        | Wideband Global SATCOM (SPACE)                  | 05  |                                    |   |                                       |  |   |  | U      |
| 104  | 0605458F                        | Air & Space Ops Center 10.2 RDT&E               | 05  |                                    |   |                                       | 119,745  |   | 119,745  | U      |
| 105  | 0605830F                        | Acq Workforce- Global Battle Mgmt               | 05  |                                    |   |                                       |  |   |  | U      |
| 106  | 0605931F                        | B-2 Defensive Management System                 | 05  |                                    |   |                                       | 194,570  |   | 194,570  | U      |
| 107  | 0101125F                        | Nuclear Weapons Modernization                   | 05  |                                    |   |                                       | 91,237   |   | 91,237   | U      |
| 108  | 0207171F                        | F-15 EPAWSS                                     | 05  |                                    |   |                                       | 209,847  |   | 209,847  | U      |
| 109  | 0207328F                        | Stand In Attack Weapon                          | 05  |                                    |   |                                       | 3,400  |   | 3,400  | U      |
| 110  | 0207423F                        | Advanced Communications Systems                 | 05  |                                    |   |                                       |  |   |  | U      |
| 111  | 0207701F                        | Full Combat Mission Training                    | 05  |                                    |   |                                       | 16,727   |   | 16,727   | U      |
| 112  | 0303267F                        | Auctioned Spectrum Relocation Fund              | 05  |                                    |   |                                       |  |   |  | U      |
| 113  | 0303367F                        | Spectrum Access Research and<br>Development     | 05  |                                    |   |                                       |  |   |  | U      |
| 114  | 0305176F                        | Combat Survivor Evader Locator                  | 05  |                                    |   |                                       |  |   |  | U      |
| 115  | 0307581F                        | JSTARS Recap                                    | 05  |                                    |   |                                       | 417,201  |   | 417,201  | U      |
| 116  | 0401310F                        | C-32 Executive Transport<br>Recapitalization    | 05  |                                    |   |                                       | 6,017  |   | 6,017  | U      |
| 117  | 0401319F                        | Presidential Aircraft<br>Recapitalization (PAR) | 05  |                                    |   |                                       | 434,069  |   | 434,069  | U      |
| 118  | 0701212F                        | Automated Test Systems                          | 05  |                                    |   |                                       | 18,528   |   | 18,528   | U      |

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|--------------|--------------------------------|----|--------|--------|---|
| 119 1203176F | Combat Survivor Evader Locator | 05 | 24,967 | 24,967 | U |
|--------------|--------------------------------|----|--------|--------|---|

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Department of the Air Force  
 FY 2019 President's Budget  
 Exhibit R-1 FY 2019 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line<br>No | Program<br>Element<br>Number | Item   | Act | FY 2019<br>Base | FY 2019<br>OCO | FY 2019<br>Total | S<br>e<br>c |
|------------|------------------------------|--|-----|-----------------|----------------|------------------|-------------|
| --         | -----                        | ----   | --- | -----           | -----          | -----            | -           |
| 102        | 0605432F                     | Polar MILSATCOM (SPACE)                      | 05  |                 |                |                  | U           |
| 103        | 0605433F                     | Wideband Global SATCOM (SPACE)               | 05  |                 |                |                  | U           |
| 104        | 0605458F                     | Air & Space Ops Center 10.2 RDT&E            | 05  |                 |                |                  | U           |
| 105        | 0605830F                     | Acq Workforce- Global Battle Mgmt            | 05  | 3,617           |                | 3,617            | U           |
| 106        | 0605931F                     | B-2 Defensive Management System              | 05  | 261,758         |                | 261,758          | U           |
| 107        | 0101125F                     | Nuclear Weapons Modernization                | 05  | 91,907          |                | 91,907           | U           |
| 108        | 0207171F                     | F-15 EPAWSS                                  | 05  | 137,095         |                | 137,095          | U           |
| 109        | 0207328F                     | Stand In Attack Weapon                       | 05  | 43,175          |                | 43,175           | U           |
| 110        | 0207423F                     | Advanced Communications Systems              | 05  | 14,888          |                | 14,888           | U           |
| 111        | 0207701F                     | Full Combat Mission Training                 | 05  | 1,015           |                | 1,015            | U           |
| 112        | 0303267F                     | Auctioned Spectrum Relocation Fund           | 05  |                 |                |                  | U           |
| 113        | 0303367F                     | Spectrum Access Research and Development     | 05  |                 |                |                  | U           |
| 114        | 0305176F                     | Combat Survivor Evader Locator               | 05  |                 |                |                  | U           |
| 115        | 0307581F                     | JSTARS Recap                                 | 05  |                 |                |                  | U           |
| 116        | 0401310F                     | C-32 Executive Transport Recapitalization    | 05  | 7,943           |                | 7,943            | U           |
| 117        | 0401319F                     | Presidential Aircraft Recapitalization (PAR) | 05  | 673,032         |                | 673,032          | U           |
| 118        | 0701212F                     | Automated Test Systems                       | 05  | 13,653          |                | 13,653           | U           |

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119 1203176F Combat Survivor Evader Locator 05 939 939 U

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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item   | Act | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests+<br>with CR Adj<br>OCO | S<br>e<br>c |
|---------|------------------------|--|-----|-------------------------|--|---|---|--|-------------|
| --      | -----                  | ----   | --- | -----                   | -----  | -----   | -----                                       | -----  | -           |
| 120     | 1203269F               | GPS IIIC   | 05  |                         |  |   |   |  | U           |
| 121     | 1203940F               | Space Situation Awareness Operations                       | 05  |                         | 10,029                                       | 10,029  |   |  | U           |
| 122     | 1206421F               | Counterspace Systems                                       | 05  |                         | 66,370                                       | 66,370  |   |  | U           |
| 123     | 1206425F               | Space Situation Awareness Systems                          | 05  |                         | 48,448                                       | 48,448  |   |  | U           |
| 124     | 1206426F               | Space Fence  | 05  |                         | 35,937                                       | 35,937  |   |  | U           |
| 125     | 1206431F               | Advanced EHF MILSATCOM (SPACE)                             | 05  |                         | 145,610                                      | 145,610   |   |  | U           |
| 126     | 1206432F               | Polar MILSATCOM (SPACE)                                    | 05  |                         | 33,644                                       | 33,644  |   |  | U           |
| 127     | 1206433F               | Wideband Global SATCOM (SPACE)                             | 05  |                         | 14,263                                       | 14,263  |   |  | U           |
| 128     | 1206441F               | Space Based Infrared System (SBIRS)<br>High EMD            | 05  |                         | 311,844                                      | 311,844   |   |  | U           |
| 129     | 1206442F               | Evolved SBIRS  | 05  |                         | 71,018                                       | 71,018  |   |  | U           |
| 130     | 1206853F               | Evolved Expendable Launch Vehicle<br>Program (SPACE) - EMD | 05  |                         | 297,572                                      | 297,572   |   |  | U           |
|         |                        | System Development & Demonstration                         |     | -----                   | -----  | -----   | -----                                       | -----  |             |
|         |                        |  |     | 3,983,019               | 4,476,762                                    | 4,476,762   |   |  |             |
| 131     | 0604256F               | Threat Simulator Development                               | 06  | 21,377                  | 35,405                                       | 35,405  |   |  | U           |
| 132     | 0604759F               | Major T&E Investment                                       | 06  | 64,538                  | 82,874                                       | 82,874  |   |  | U           |
| 133     | 0605101F               | RAND Project Air Force                                     | 06  | 33,373                  | 34,346                                       | 34,346  |   |  | U           |
| 134     | 0605502F               | Small Business Innovation Research                         | 06  | 407,570                 |  |   |   |  | U           |
| 135     | 0605712F               | Initial Operational Test &<br>Evaluation                   | 06  | 13,829                  | 15,523                                       | 15,523  |   |  | U           |

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|--------------|-----------------------------|----|---------|---------|---------|---|
| 136 0605807F | Test and Evaluation Support | 06 | 676,417 | 678,289 | 678,289 | U |
|--------------|-----------------------------|----|---------|---------|---------|---|

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Department of the Air Force  
 FY 2019 President's Budget  
 Exhibit R-1 FY 2019 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line | Program<br>Element<br>No Number | Item<br>-----  | Act<br>--- | FY 2018<br>Emergency<br>Requests**<br>Emergency | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>Emergency | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency** | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO + e<br>Emergency | S<br>c |
|------|---------------------------------|--|------------|---|---|---------------------------------------|--|---|--|--------|
| ---  | -----                           | -----  | ---        | -----   | -----   | -----                                 | -----  | -----   | -----  | -      |
| 120  | 1203269F                        | GPS IIIC   | 05         |   |   |                                       |  |   |  | U      |
| 121  | 1203940F                        | Space Situation Awareness Operations                       | 05         |   |   |                                       | 10,029   |   | 10,029   | U      |
| 122  | 1206421F                        | Counterspace Systems                                       | 05         |   |   |                                       | 66,370   |   | 66,370   | U      |
| 123  | 1206425F                        | Space Situation Awareness Systems                          | 05         |   |   |                                       | 48,448   |   | 48,448   | U      |
| 124  | 1206426F                        | Space Fence  | 05         |   |   |                                       | 35,937   |   | 35,937   | U      |
| 125  | 1206431F                        | Advanced EHF MILSATCOM (SPACE)                             | 05         |   |   |                                       | 145,610  |   | 145,610  | U      |
| 126  | 1206432F                        | Polar MILSATCOM (SPACE)                                    | 05         |   |   |                                       | 33,644   |   | 33,644   | U      |
| 127  | 1206433F                        | Wideband Global SATCOM (SPACE)                             | 05         |   |   |                                       | 14,263   |   | 14,263   | U      |
| 128  | 1206441F                        | Space Based Infrared System (SBIRS)<br>High EMD            | 05         |   |   |                                       | 311,844  |   | 311,844  | U      |
| 129  | 1206442F                        | Evolved SBIRS  | 05         |   |   |                                       | 71,018   |   | 71,018   | U      |
| 130  | 1206853F                        | Evolved Expendable Launch Vehicle<br>Program (SPACE) - EMD | 05         |   |   |                                       | 297,572  |   | 297,572  | U      |
|      |                                 |  |            | -----   | -----   | -----                                 | -----  | -----   | -----  |        |
|      |                                 | System Development & Demonstration                         |            |   |   |                                       | 4,476,762  |   | 4,476,762  |        |
| 131  | 0604256F                        | Threat Simulator Development                               | 06         |   |   |                                       | 35,405   |   | 35,405   | U      |
| 132  | 0604759F                        | Major T&E Investment                                       | 06         |   |   |                                       | 82,874   |   | 82,874   | U      |
| 133  | 0605101F                        | RAND Project Air Force                                     | 06         |   |   |                                       | 34,346   |   | 34,346   | U      |
| 134  | 0605502F                        | Small Business Innovation Research                         | 06         |   |   |                                       |  |   |  | U      |
| 135  | 0605712F                        | Initial Operational Test &<br>Evaluation                   | 06         |   |   |                                       | 15,523   |   | 15,523   | U      |

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|--------------|-----------------------------|----|---------|---------|---|
| 136 0605807F | Test and Evaluation Support | 06 | 678,289 | 678,289 | U |
|--------------|-----------------------------|----|---------|---------|---|

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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item  | Act | FY 2019 Base | FY 2019 OCO | FY 2019 Total | Se c |
|---------|------------------------|---|-----|--------------|-------------|---------------|------|
| --      | -----                  | ----  | --- | -----        | -----       | -----         | -    |
| 120     | 1203269F               | GPS IIIC  | 05  | 451,889      |             | 451,889       | U    |
| 121     | 1203940F               | Space Situation Awareness Operations                    | 05  | 46,668       |             | 46,668        | U    |
| 122     | 1206421F               | Counterspace Systems                                    | 05  | 20,676       |             | 20,676        | U    |
| 123     | 1206425F               | Space Situation Awareness Systems                       | 05  | 134,463      |             | 134,463       | U    |
| 124     | 1206426F               | Space Fence   | 05  | 20,215       |             | 20,215        | U    |
| 125     | 1206431F               | Advanced EHF MILSATCOM (SPACE)                          | 05  | 151,506      |             | 151,506       | U    |
| 126     | 1206432F               | Polar MILSATCOM (SPACE)                                 | 05  | 27,337       |             | 27,337        | U    |
| 127     | 1206433F               | Wideband Global SATCOM (SPACE)                          | 05  | 3,970        |             | 3,970         | U    |
| 128     | 1206441F               | Space Based Infrared System (SBIRS) High EMD            | 05  | 60,565       |             | 60,565        | U    |
| 129     | 1206442F               | Evolved SBIRS   | 05  | 643,126      |             | 643,126       | U    |
| 130     | 1206853F               | Evolved Expendable Launch Vehicle Program (SPACE) - EMD | 05  | 245,447      |             | 245,447       | U    |
|         |                        |   |     | -----        | -----       | -----         |      |
|         |                        | System Development & Demonstration                      |     | 5,272,191    |             | 5,272,191     |      |
| 131     | 0604256F               | Threat Simulator Development                            | 06  | 34,256       |             | 34,256        | U    |
| 132     | 0604759F               | Major T&E Investment                                    | 06  | 91,844       |             | 91,844        | U    |
| 133     | 0605101F               | RAND Project Air Force                                  | 06  | 34,614       |             | 34,614        | U    |
| 134     | 0605502F               | Small Business Innovation Research                      | 06  |              |             |               | U    |
| 135     | 0605712F               | Initial Operational Test & Evaluation                   | 06  | 18,043       |             | 18,043        | U    |

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|--------------|-----------------------------|----|---------|---------|---|
| 136 0605807F | Test and Evaluation Support | 06 | 692,784 | 692,784 | U |
|--------------|-----------------------------|----|---------|---------|---|

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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item   | Act | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests+<br>with CR Adj<br>OCO | S<br>e<br>c |
|---------|------------------------|--|-----|-------------------------|--|---|---|--|-------------|
| --      | -----                  | ----   | --- | -----                   | -----  | -----   | -----                                       | -----  | -           |
| 137     | 0605826F               | Acq Workforce- Global Power  | 06  |                         | 219,809                                      | 219,809   |   |  | U           |
| 138     | 0605827F               | Acq Workforce- Global Vig & Combat Sys                                 | 06  |                         | 223,179                                      | 223,179   |   |  | U           |
| 139     | 0605828F               | Acq Workforce- Global Reach  | 06  |                         | 138,556                                      | 138,556   |   |  | U           |
| 140     | 0605829F               | Acq Workforce- Cyber, Network, & Bus Sys                               | 06  |                         | 221,393                                      | 221,393   |   |  | U           |
| 141     | 0605830F               | Acq Workforce- Global Battle Mgmt                                      | 06  |                         | 152,577                                      | 152,577   |   |  | U           |
| 142     | 0605831F               | Acq Workforce- Capability Integration                                  | 06  |                         | 196,561                                      | 196,561   |   |  | U           |
| 143     | 0605832F               | Acq Workforce- Advanced Prgm Technology                                | 06  |                         | 28,322                                       | 28,322  |   |  | U           |
| 144     | 0605833F               | Acq Workforce- Nuclear Systems   | 06  |                         | 126,611                                      | 126,611   |   |  | U           |
| 145     | 0605860F               | Rocket Systems Launch Program (SPACE)                                  | 06  | 10,899                  |  |   |   |  | U           |
| 146     | 0605864F               | Space Test Program (STP)   | 06  | 40,507                  |  |   |   |  | U           |
| 147     | 0605898F               | Management HQ - R&D  | 06  |                         | 9,154  | 9,154   |   |  | U           |
| 148     | 0605976F               | Facilities Restoration and Modernization - Test and Evaluation Support | 06  | 134,111                 | 135,507                                      | 135,507   |   |  | U           |
| 149     | 0605978F               | Facilities Sustainment - Test and Evaluation Support                   | 06  | 28,091                  | 28,720                                       | 28,720  |   |  | U           |
| 150     | 0606017F               | Requirements Analysis and Maturation                                   | 06  | 45,134                  | 35,453                                       | 35,453  |   |  | U           |

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|--------------|--|----|--------|---|
| 151 0606116F | Space Test and Training Range<br>Development | 06 | 17,912 | U |
|--------------|--|----|--------|---|

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Department of the Air Force  
 FY 2019 President's Budget  
 Exhibit R-1 FY 2019 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line | Program<br>Element<br>No Number | Item   | Act | FY 2018<br>Emergency<br>Requests** | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>Emergency | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency** | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO + e<br>Emergency | S<br>c |
|------|---------------------------------|--|-----|------------------------------------|---|---------------------------------------|--|---|--|--------|
| --   | -----                           | ----   | --- | -----                              | -----   | -----                                 | -----  | -----   | -----  | -      |
| 137  | 0605826F                        | Acq Workforce- Global Power  | 06  |                                    |   |                                       | 219,809  |   | 219,809  | U      |
| 138  | 0605827F                        | Acq Workforce- Global Vig & Combat<br>Sys                                    | 06  |                                    |   |                                       | 223,179  |   | 223,179  | U      |
| 139  | 0605828F                        | Acq Workforce- Global Reach  | 06  |                                    |   |                                       | 138,556  |   | 138,556  | U      |
| 140  | 0605829F                        | Acq Workforce- Cyber, Network, &<br>Bus Sys                                  | 06  |                                    |   |                                       | 221,393  |   | 221,393  | U      |
| 141  | 0605830F                        | Acq Workforce- Global Battle Mgmt  | 06  |                                    |   |                                       | 152,577  |   | 152,577  | U      |
| 142  | 0605831F                        | Acq Workforce- Capability<br>Integration                                     | 06  |                                    |   |                                       | 196,561  |   | 196,561  | U      |
| 143  | 0605832F                        | Acq Workforce- Advanced Prgm<br>Technology                                   | 06  |                                    |   |                                       | 28,322   |   | 28,322   | U      |
| 144  | 0605833F                        | Acq Workforce- Nuclear Systems   | 06  |                                    |   |                                       | 126,611  |   | 126,611  | U      |
| 145  | 0605860F                        | Rocket Systems Launch Program<br>(SPACE)                                     | 06  |                                    |   |                                       |  |   |  | U      |
| 146  | 0605864F                        | Space Test Program (STP)   | 06  |                                    |   |                                       |  |   |  | U      |
| 147  | 0605898F                        | Management HQ - R&D  | 06  |                                    |   |                                       | 9,154  |   | 9,154  | U      |
| 148  | 0605976F                        | Facilities Restoration and<br>Modernization - Test and Evaluation<br>Support | 06  |                                    |   |                                       | 135,507  |   | 135,507  | U      |
| 149  | 0605978F                        | Facilities Sustainment - Test and<br>Evaluation Support                      | 06  |                                    |   |                                       | 28,720   |   | 28,720   | U      |
| 150  | 0606017F                        | Requirements Analysis and Maturation   | 06  |                                    |   |                                       | 35,453   |   | 35,453   | U      |

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151 0606116F Space Test and Training Range 06  
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 FY 2019 President's Budget  
 Exhibit R-1 FY 2019 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

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Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item   | Act | FY 2019 Base | FY 2019 OCO | FY 2019 Total | Se |
|---------|------------------------|--|-----|--------------|-------------|---------------|----|
| --      | -----                  | ----   | --- | -----        | -----       | -----         | -  |
| 137     | 0605826F               | Acq Workforce- Global Power  | 06  | 233,924      |             | 233,924       | U  |
| 138     | 0605827F               | Acq Workforce- Global Vig & Combat Sys                                 | 06  | 263,488      |             | 263,488       | U  |
| 139     | 0605828F               | Acq Workforce- Global Reach  | 06  | 153,591      |             | 153,591       | U  |
| 140     | 0605829F               | Acq Workforce- Cyber, Network, & Bus Sys                               | 06  | 232,315      |             | 232,315       | U  |
| 141     | 0605830F               | Acq Workforce- Global Battle Mgmt                                      | 06  | 169,868      |             | 169,868       | U  |
| 142     | 0605831F               | Acq Workforce- Capability Integration                                  | 06  | 226,219      |             | 226,219       | U  |
| 143     | 0605832F               | Acq Workforce- Advanced Prgm Technology                                | 06  | 38,400       |             | 38,400        | U  |
| 144     | 0605833F               | Acq Workforce- Nuclear Systems   | 06  | 125,761      |             | 125,761       | U  |
| 145     | 0605860F               | Rocket Systems Launch Program (SPACE)                                  | 06  |              |             |               | U  |
| 146     | 0605864F               | Space Test Program (STP)   | 06  |              |             |               | U  |
| 147     | 0605898F               | Management HQ - R&D  | 06  | 10,642       |             | 10,642        | U  |
| 148     | 0605976F               | Facilities Restoration and Modernization - Test and Evaluation Support | 06  | 162,216      |             | 162,216       | U  |
| 149     | 0605978F               | Facilities Sustainment - Test and Evaluation Support                   | 06  | 28,888       |             | 28,888        | U  |
| 150     | 0606017F               | Requirements Analysis and Maturation                                   | 06  | 35,285       |             | 35,285        | U  |

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151 0606116F    Space Test and Training Range    06  
Development

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Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line | Program<br>Element<br>No Number | Item   | Act | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests+<br>with CR Adj<br>OCO | S<br>e<br>c |
|------|---------------------------------|--|-----|-------------------------|--|---|---|--|-------------|
| --   | -----                           | ----   | --- | -----                   | -----  | -----   | -----                                       | -----  | -           |
| 152  | 0606392F                        | Space and Missile Center (SMC)<br>Civilian Workforce           | 06  | 171,666                 |  |   |   |  | U           |
| 153  | 0308602F                        | ENTEPRISE INFORMATION SERVICES (EIS)                           | 06  | 4,265                   | 29,049                                       | 29,049  |   |  | U           |
| 154  | 0702806F                        | Acquisition and Management Support                             | 06  | 14,168                  | 14,980                                       | 14,980  |   |  | U           |
| 155  | 0804731F                        | General Skill Training   | 06  | 1,353                   | 1,434  | 1,434   |   |  | U           |
| 156  | 0909999F                        | Financing for Cancelled Account<br>Adjustments                 | 06  | 1,004                   |  |   |   |  | U           |
| 157  | 1001004F                        | International Activities                                       | 06  | 4,626                   | 4,569  | 4,569   |   |  | U           |
| 158  | 1206116F                        | Space Test and Training Range<br>Development                   | 06  |                         | 25,773                                       | 25,773  |   |  | U           |
| 159  | 1206392F                        | Space and Missile Center (SMC)<br>Civilian Workforce           | 06  |                         | 169,887                                      | 169,887   |   |  | U           |
| 160  | 1206398F                        | Space & Missile Systems Center - MHA                           | 06  |                         | 9,531  | 9,531   |   |  | U           |
| 161  | 1206860F                        | Rocket Systems Launch Program<br>(SPACE)                       | 06  |                         | 20,975                                       | 20,975  |   |  | U           |
| 162  | 1206864F                        | Space Test Program (STP)                                       | 06  |                         | 25,398                                       | 25,398  |   |  | U           |
|      |                                 | Management Support   |     | 1,690,840               | 2,663,875                                    | 2,663,875   |   |  |             |
| 163  | 0603423F                        | Global Positioning System III -<br>Operational Control Segment | 07  | 376,645                 |  |   |   |  | U           |
| 164  | 0604222F                        | Nuclear Weapons Support  | 07  |                         | 27,579                                       | 27,579  |   |  | U           |
| 165  | 0604233F                        | Specialized Undergraduate Flight<br>Training                   | 07  | 17,754                  | 5,776  | 5,776   |   |  | U           |

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|--------------|------------------------|----|--------|--------|--------|---|
| 166 0604445F | Wide Area Surveillance | 07 | 50,486 | 16,247 | 16,247 | U |
|--------------|------------------------|----|--------|--------|--------|---|

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Department of the Air Force  
 FY 2019 President's Budget  
 Exhibit R-1 FY 2019 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line | Program<br>Element<br>No Number | Item<br>-----  | Act<br>--- | FY 2018<br>Emergency<br>Requests**<br>----- | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs<br>----- | FY 2018<br>Remaining Req<br>Emergency<br>----- | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency**<br>----- | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs<br>----- | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO +<br>Emergency<br>----- | S<br>e<br>c<br>- |
|------|---------------------------------|--|------------|---|--|--|---|--|---|------------------|
| 152  | 0606392F                        | Space and Missile Center (SMC)<br>Civilian Workforce           | 06         |   |  |  |   |  |   | U                |
| 153  | 0308602F                        | ENTEPRISE INFORMATION SERVICES (EIS)                           | 06         |   |  |  | 29,049  |  | 29,049  | U                |
| 154  | 0702806F                        | Acquisition and Management Support                             | 06         |   |  |  | 14,980  |  | 14,980  | U                |
| 155  | 0804731F                        | General Skill Training   | 06         |   |  |  | 1,434   |  | 1,434   | U                |
| 156  | 0909999F                        | Financing for Cancelled Account<br>Adjustments                 | 06         |   |  |  |   |  |   | U                |
| 157  | 1001004F                        | International Activities                                       | 06         |   |  |  | 4,569   |  | 4,569   | U                |
| 158  | 1206116F                        | Space Test and Training Range<br>Development                   | 06         |   |  |  | 25,773  |  | 25,773  | U                |
| 159  | 1206392F                        | Space and Missile Center (SMC)<br>Civilian Workforce           | 06         |   |  |  | 169,887   |  | 169,887   | U                |
| 160  | 1206398F                        | Space & Missile Systems Center - MHA                           | 06         |   |  |  | 9,531   |  | 9,531   | U                |
| 161  | 1206860F                        | Rocket Systems Launch Program<br>(SPACE)                       | 06         |   |  |  | 20,975  |  | 20,975  | U                |
| 162  | 1206864F                        | Space Test Program (STP)                                       | 06         |   |  |  | 25,398  |  | 25,398  | U                |
|      |                                 | Management Support   |            |   |  |  | 2,663,875   |  | 2,663,875   |                  |
| 163  | 0603423F                        | Global Positioning System III -<br>Operational Control Segment | 07         |   |  |  |   |  |   | U                |
| 164  | 0604222F                        | Nuclear Weapons Support  | 07         |   |  |  | 27,579  |  | 27,579  | U                |
| 165  | 0604233F                        | Specialized Undergraduate Flight<br>Training                   | 07         |   |  |  | 5,776   |  | 5,776   | U                |

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|--------------|------------------------|----|--------|----------|
| 166 0604445F | Wide Area Surveillance | 07 | 16,247 | 16,247 U |
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Department of the Air Force  
 FY 2019 President's Budget  
 Exhibit R-1 FY 2019 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item   | Act | FY 2019 Base | FY 2019 OCO | FY 2019 Total | Se c |
|---------|------------------------|--|-----|--------------|-------------|---------------|------|
| --      | -----                  | ----   | --- | -----        | -----       | -----         | -    |
| 152     | 0606392F               | Space and Missile Center (SMC)<br>Civilian Workforce           | 06  |              |             |               | U    |
| 153     | 0308602F               | ENTEPRISE INFORMATION SERVICES (EIS)                           | 06  | 20,545       |             | 20,545        | U    |
| 154     | 0702806F               | Acquisition and Management Support                             | 06  | 12,367       |             | 12,367        | U    |
| 155     | 0804731F               | General Skill Training   | 06  | 1,448        |             | 1,448         | U    |
| 156     | 0909999F               | Financing for Cancelled Account<br>Adjustments                 | 06  |              |             |               | U    |
| 157     | 1001004F               | International Activities                                       | 06  | 3,998        |             | 3,998         | U    |
| 158     | 1206116F               | Space Test and Training Range<br>Development                   | 06  | 23,254       |             | 23,254        | U    |
| 159     | 1206392F               | Space and Missile Center (SMC)<br>Civilian Workforce           | 06  | 169,912      |             | 169,912       | U    |
| 160     | 1206398F               | Space & Missile Systems Center - MHA                           | 06  | 10,508       |             | 10,508        | U    |
| 161     | 1206860F               | Rocket Systems Launch Program<br>(SPACE)                       | 06  | 19,721       |             | 19,721        | U    |
| 162     | 1206864F               | Space Test Program (STP)                                       | 06  | 25,620       |             | 25,620        | U    |
|         |                        | Management Support   |     | 2,839,511    |             | 2,839,511     |      |
| 163     | 0603423F               | Global Positioning System III -<br>Operational Control Segment | 07  |              |             |               | U    |
| 164     | 0604222F               | Nuclear Weapons Support  | 07  |              |             |               | U    |
| 165     | 0604233F               | Specialized Undergraduate Flight<br>Training                   | 07  | 11,344       |             | 11,344        | U    |

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166 0604445F Wide Area Surveillance

07

U

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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item  | Act | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests+<br>with CR Adj<br>OCO | S<br>e<br>c |
|---------|------------------------|---|-----|-------------------------|--|---|---|--|-------------|
| --      | -----                  | ----  | --- | -----                   | -----  | -----   | -----                                       | -----  | -           |
| 167     | 0605018F               | AF Integrated Personnel and Pay System (AF-IPPS)                        | 07  | 9,956                   | 21,915                                       | 21,915  |   |  | U           |
| 168     | 0605024F               | Anti-Tamper Technology Executive Agency                                 | 07  | 32,646                  | 33,150                                       | 33,150  |   |  | U           |
| 169     | 0605117F               | Foreign Materiel Acquisition and Exploitation                           | 07  | 58,360                  | 66,653                                       | 66,653  |   |  | U           |
| 170     | 0605278F               | HC/MC-130 Recap RDT&E   | 07  |                         | 38,579                                       | 38,579  |   |  | U           |
| 171     | 0606018F               | NC3 Integration   | 07  |                         | 12,636                                       | 12,636  |   |  | U           |
| 172     | 0606942F               | Assessments and Evaluations Cyber Vulnerabilities                       | 07  |                         |  |   |   |  | U           |
| 173     | 0101113F               | B-52 Squadrons  | 07  | 74,550                  | 111,910                                      | 111,910   |   |  | U           |
| 174     | 0101122F               | Air-Launched Cruise Missile (ALCM)                                      | 07  | 437                     | 463  | 463   |   |  | U           |
| 175     | 0101126F               | B-1B Squadrons  | 07  | 4,562                   | 62,471                                       | 62,471  |   |  | U           |
| 176     | 0101127F               | B-2 Squadrons   | 07  | 122,973                 | 193,108                                      | 193,108   |   |  | U           |
| 177     | 0101213F               | Minuteman Squadrons   | 07  | 173,718                 | 210,845                                      | 210,845   |   |  | U           |
| 178     | 0101313F               | Integrated Strategic Planning and Analysis Network (ISPAN) - USSTRATCOM | 07  | 39,120                  | 25,736                                       | 25,736  |   |  | U           |
| 179     | 0101316F               | Worldwide Joint Strategic Communications                                | 07  | 5,876                   | 6,272  | 6,272   |   |  | U           |
| 180     | 0101324F               | Integrated Strategic Planning & Analysis Network                        | 07  |                         | 11,032                                       | 11,032  |   |  | U           |

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|-----|----------|---------------------------|----|--------|---------|---------|---|
| 181 | 0101328F | ICBM Reentry Vehicles     | 07 |        |         |         | U |
| 183 | 0102110F | UH-1N Replacement Program | 07 | 86,856 | 108,617 | 108,617 | U |

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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line | Program<br>Element<br>No Number | Item  | Act | FY 2018<br>Emergency<br>Requests** | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>Emergency | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency** | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO + e | S |
|------|---------------------------------|---|-----|------------------------------------|---|---------------------------------------|--|---|---|---|
| --   | -----                           | ----  | --- | -----                              | -----   | -----                                 | -----  | -----   | -----   | - |
| 167  | 0605018F                        | AF Integrated Personnel and Pay<br>System (AF-IPPS)                           | 07  |                                    |   |                                       | 21,915   |   | 21,915  | U |
| 168  | 0605024F                        | Anti-Tamper Technology Executive<br>Agency                                    | 07  |                                    |   |                                       | 33,150   |   | 33,150  | U |
| 169  | 0605117F                        | Foreign Materiel Acquisition and<br>Exploitation                              | 07  |                                    |   |                                       | 66,653   |   | 66,653  | U |
| 170  | 0605278F                        | HC/MC-130 Recap RDT&E   | 07  |                                    |   |                                       | 38,579   |   | 38,579  | U |
| 171  | 0606018F                        | NC3 Integration   | 07  |                                    |   |                                       | 12,636   |   | 12,636  | U |
| 172  | 0606942F                        | Assessments and Evaluations Cyber<br>Vulnerabilities                          | 07  |                                    |   |                                       |  |   |   | U |
| 173  | 0101113F                        | B-52 Squadrons  | 07  |                                    |   |                                       | 111,910  |   | 111,910   | U |
| 174  | 0101122F                        | Air-Launched Cruise Missile (ALCM)  | 07  |                                    |   |                                       | 463  |   | 463   | U |
| 175  | 0101126F                        | B-1B Squadrons  | 07  |                                    |   |                                       | 62,471   |   | 62,471  | U |
| 176  | 0101127F                        | B-2 Squadrons   | 07  |                                    |   |                                       | 193,108  |   | 193,108   | U |
| 177  | 0101213F                        | Minuteman Squadrons   | 07  |                                    |   |                                       | 210,845  |   | 210,845   | U |
| 178  | 0101313F                        | Integrated Strategic Planning and<br>Analysis Network (ISPAN) -<br>USSTRATCOM | 07  |                                    |   |                                       | 25,736   |   | 25,736  | U |
| 179  | 0101316F                        | Worldwide Joint Strategic<br>Communications                                   | 07  |                                    |   |                                       | 6,272  |   | 6,272   | U |
| 180  | 0101324F                        | Integrated Strategic Planning &<br>Analysis Network                           | 07  |                                    |   |                                       | 11,032   |   | 11,032  | U |

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|--------------|---------------------------|----|---------|---------|---|
| 181 0101328F | ICBM Reentry Vehicles     | 07 |         |         | U |
| 183 0102110F | UH-1N Replacement Program | 07 | 108,617 | 108,617 | U |

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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item  | Act | FY 2019 Base | FY 2019 OCO | FY 2019 Total | Se c |
|---------|------------------------|---|-----|--------------|-------------|---------------|------|
| --      | -----                  | ----  | --- | -----        | -----       | -----         | -    |
| 167     | 0605018F               | AF Integrated Personnel and Pay System (AF-IPPS)                        | 07  | 47,287       |             | 47,287        | U    |
| 168     | 0605024F               | Anti-Tamper Technology Executive Agency                                 | 07  | 32,770       |             | 32,770        | U    |
| 169     | 0605117F               | Foreign Materiel Acquisition and Exploitation                           | 07  | 68,368       |             | 68,368        | U    |
| 170     | 0605278F               | HC/MC-130 Recap RDT&E   | 07  | 32,574       |             | 32,574        | U    |
| 171     | 0606018F               | NC3 Integration   | 07  | 26,112       |             | 26,112        | U    |
| 172     | 0606942F               | Assessments and Evaluations Cyber Vulnerabilities                       | 07  | 99,100       |             | 99,100        | U    |
| 173     | 0101113F               | B-52 Squadrons  | 07  | 280,414      |             | 280,414       | U    |
| 174     | 0101122F               | Air-Launched Cruise Missile (ALCM)                                      | 07  | 5,955        |             | 5,955         | U    |
| 175     | 0101126F               | B-1B Squadrons  | 07  | 76,030       |             | 76,030        | U    |
| 176     | 0101127F               | B-2 Squadrons   | 07  | 105,561      |             | 105,561       | U    |
| 177     | 0101213F               | Minuteman Squadrons   | 07  | 156,047      |             | 156,047       | U    |
| 178     | 0101313F               | Integrated Strategic Planning and Analysis Network (ISPAN) - USSTRATCOM | 07  |              |             |               | U    |
| 179     | 0101316F               | Worldwide Joint Strategic Communications                                | 07  | 10,442       |             | 10,442        | U    |
| 180     | 0101324F               | Integrated Strategic Planning & Analysis Network                        | 07  | 22,833       |             | 22,833        | U    |

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|--------------|---------------------------|----|---------|---------|---|
| 181 0101328F | ICBM Reentry Vehicles     | 07 | 18,412  | 18,412  | U |
| 183 0102110F | UH-1N Replacement Program | 07 | 288,022 | 288,022 | U |

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Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item   | Act | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests+<br>with CR Adj<br>OCO | S<br>e<br>c |
|---------|------------------------|--|-----|-------------------------|--|---|---|--|-------------|
| --      | -----                  | ----   | --- | -----                   | -----  | -----   | -----                                       | -----  | -           |
| 184     | 0102326F               | Region/Sector Operation Control Center Modernization Program | 07  | 10,868                  | 3,347  | 3,347   |   |  | U           |
| 185     | 0105921F               | Service Support to STRATCOM - Space Activities               | 07  | 8,381                   |  |   |   |  | U           |
| 186     | 0205219F               | MQ-9 UAV   | 07  | 167,239                 | 201,394                                      | 201,394   |   |  | U           |
| 187     | 0205671F               | Joint Counter RCIED Electronic Warfare                       | 07  |                         |  |   |   |  | U           |
| 188     | 0207131F               | A-10 Squadrons   | 07  | 11,353                  | 17,459                                       | 17,459  |   |  | U           |
| 189     | 0207133F               | F-16 Squadrons   | 07  | 132,113                 | 246,578                                      | 246,578   |   |  | U           |
| 190     | 0207134F               | F-15E Squadrons  | 07  | 344,184                 | 320,271                                      | 320,271   |   |  | U           |
| 191     | 0207136F               | Manned Destructive Suppression                               | 07  | 12,697                  | 15,106                                       | 15,106  |   |  | U           |
| 192     | 0207138F               | F-22A Squadrons  | 07  | 364,691                 | 610,942                                      | 610,942   |   |  | U           |
| 193     | 0207142F               | F-35 Squadrons   | 07  | 73,905                  | 334,530                                      | 334,530   |   |  | U           |
| 194     | 0207161F               | Tactical AIM Missiles  | 07  | 51,499                  | 34,952                                       | 34,952  |   |  | U           |
| 195     | 0207163F               | Advanced Medium Range Air-to-Air Missile (AMRAAM)            | 07  | 53,320                  | 61,322                                       | 61,322  |   |  | U           |
| 196     | 0207227F               | Combat Rescue - Pararescue                                   | 07  | 350                     | 693  | 693   |   |  | U           |
| 197     | 0207247F               | AF TENCAP  | 07  | 28,412                  |  |   |   |  | U           |
| 198     | 0207249F               | Precision Attack Systems Procurement                         | 07  | 625                     | 1,714  | 1,714   |   |  | U           |
| 199     | 0207253F               | Compass Call   | 07  | 13,723                  | 14,040                                       | 14,040  |   |  | U           |

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|--------------|--|----|---------|---------|---------|---|
| 200 0207268F | Aircraft Engine Component<br>Improvement Program | 07 | 106,049 | 109,243 | 109,243 | U |
|--------------|--|----|---------|---------|---------|---|

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Department of the Air Force  
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Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line | Program<br>Element<br>No Number | Item<br>-----   | Act<br>--- | FY 2018<br>Emergency<br>Requests**<br>----- | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs<br>----- | FY 2018<br>Remaining Req<br>Emergency<br>----- | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency**<br>----- | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs<br>----- | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO + e<br>Emergency<br>----- | S<br>c<br>- |
|------|---------------------------------|---|------------|---|--|--|---|--|---|-------------|
| 184  | 0102326F                        | Region/Sector Operation Control<br>Center Modernization Program | 07         |   |  |  | 3,347   |  | 3,347   | U           |
| 185  | 0105921F                        | Service Support to STRATCOM - Space<br>Activities               | 07         |   |  |  |   |  |   | U           |
| 186  | 0205219F                        | MQ-9 UAV  | 07         |   |  |  | 201,394   |  | 201,394   | U           |
| 187  | 0205671F                        | Joint Counter RCIED Electronic<br>Warfare                       | 07         |   |  |  |   |  |   | U           |
| 188  | 0207131F                        | A-10 Squadrons  | 07         |   |  |  | 17,459  |  | 17,459  | U           |
| 189  | 0207133F                        | F-16 Squadrons  | 07         |   |  |  | 246,578   |  | 246,578   | U           |
| 190  | 0207134F                        | F-15E Squadrons   | 07         |   |  |  | 320,271   |  | 320,271   | U           |
| 191  | 0207136F                        | Manned Destructive Suppression                                  | 07         |   |  |  | 15,106  |  | 15,106  | U           |
| 192  | 0207138F                        | F-22A Squadrons   | 07         |   |  |  | 610,942   |  | 610,942   | U           |
| 193  | 0207142F                        | F-35 Squadrons  | 07         |   |  |  | 334,530   |  | 334,530   | U           |
| 194  | 0207161F                        | Tactical AIM Missiles   | 07         |   |  |  | 34,952  |  | 34,952  | U           |
| 195  | 0207163F                        | Advanced Medium Range Air-to-Air<br>Missile (AMRAAM)            | 07         |   |  |  | 61,322  |  | 61,322  | U           |
| 196  | 0207227F                        | Combat Rescue - Pararescue                                      | 07         |   |  |  | 693   |  | 693   | U           |
| 197  | 0207247F                        | AF TENCAP   | 07         |   |  |  |   |  |   | U           |
| 198  | 0207249F                        | Precision Attack Systems Procurement                            | 07         |   |  |  | 1,714   |  | 1,714   | U           |
| 199  | 0207253F                        | Compass Call  | 07         |   |  |  | 14,040  |  | 14,040  | U           |

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|--------------|--|----|---------|-----------|
| 200 0207268F | Aircraft Engine Component<br>Improvement Program | 07 | 109,243 | 109,243 U |
|--------------|--|----|---------|-----------|

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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item   | Act | FY 2019 Base | FY 2019 OCO | FY 2019 Total | S e c |
|---------|------------------------|--|-----|--------------|-------------|---------------|-------|
| --      | -----                  | ----   | --- | -----        | -----       | -----         | -     |
| 184     | 0102326F               | Region/Sector Operation Control Center Modernization Program | 07  | 9,252        |             | 9,252         | U     |
| 185     | 0105921F               | Service Support to STRATCOM - Space Activities               | 07  |              |             |               | U     |
| 186     | 0205219F               | MQ-9 UAV   | 07  | 115,345      | 4,500       | 119,845       | U     |
| 187     | 0205671F               | Joint Counter RCIED Electronic Warfare                       | 07  |              | 4,000       | 4,000         | U     |
| 188     | 0207131F               | A-10 Squadrons   | 07  | 26,738       | 1,000       | 27,738        | U     |
| 189     | 0207133F               | F-16 Squadrons   | 07  | 191,564      |             | 191,564       | U     |
| 190     | 0207134F               | F-15E Squadrons  | 07  | 192,883      |             | 192,883       | U     |
| 191     | 0207136F               | Manned Destructive Suppression                               | 07  | 15,238       |             | 15,238        | U     |
| 192     | 0207138F               | F-22A Squadrons  | 07  | 603,553      |             | 603,553       | U     |
| 193     | 0207142F               | F-35 Squadrons   | 07  | 549,501      |             | 549,501       | U     |
| 194     | 0207161F               | Tactical AIM Missiles  | 07  | 37,230       |             | 37,230        | U     |
| 195     | 0207163F               | Advanced Medium Range Air-to-Air Missile (AMRAAM)            | 07  | 61,393       |             | 61,393        | U     |
| 196     | 0207227F               | Combat Rescue - Pararescue                                   | 07  | 647          |             | 647           | U     |
| 197     | 0207247F               | AF TENCAP  | 07  |              |             |               | U     |
| 198     | 0207249F               | Precision Attack Systems Procurement                         | 07  | 14,891       |             | 14,891        | U     |
| 199     | 0207253F               | Compass Call   | 07  | 13,901       |             | 13,901        | U     |

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|--------------|--|----|---------|---------|---|
| 200 0207268F | Aircraft Engine Component<br>Improvement Program | 07 | 121,203 | 121,203 | U |
|--------------|--|----|---------|---------|---|

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Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item   | Act | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests+<br>with CR Adj<br>OCO | S<br>e<br>c |
|---------|------------------------|--|-----|-------------------------|--|---|---|--|-------------|
| --      | -----                  | ----   | --- | -----                   | -----  | -----   | -----                                       | -----  | -           |
| 201     | 0207277F               | ISR Innovations  | 07  |                         |  |   | 5,750                                       | 5,750  | U           |
| 202     | 0207325F               | Joint Air-to-Surface Standoff Missile (JASSM)          | 07  | 23,108                  | 29,932                                       | 29,932  |   |  | U           |
| 203     | 0207410F               | Air & Space Operations Center (AOC)                    | 07  | 29,916                  | 26,956                                       | 26,956  |   |  | U           |
| 204     | 0207412F               | Control and Reporting Center (CRC)                     | 07  | 12,854                  | 2,450  | 2,450   |   |  | U           |
| 205     | 0207417F               | Airborne Warning and Control System (AWACS)            | 07  | 85,727                  | 151,726                                      | 151,726   |   |  | U           |
| 206     | 0207418F               | Tactical Airborne Control Systems                      | 07  | 2,353                   | 3,656  | 3,656   |   |  | U           |
| 208     | 0207431F               | Combat Air Intelligence System Activities              | 07  | 15,461                  | 13,420                                       | 13,420  |   |  | U           |
| 209     | 0207444F               | Tactical Air Control Party-Mod                         | 07  | 11,437                  | 10,623                                       | 10,623  |   |  | U           |
| 210     | 0207448F               | C2ISR Tactical Data Link                               | 07  | 1,406                   | 1,754  | 1,754   |   |  | U           |
| 211     | 0207452F               | DCAPES   | 07  | 13,286                  | 17,382                                       | 17,382  |   |  | U           |
| 212     | 0207573F               | National Technical Nuclear Forensics                   | 07  |                         | 2,307  | 2,307   |   |  | U           |
| 213     | 0207581F               | Joint Surveillance/Target Attack Radar System (JSTARS) | 07  |                         |  |   |   |  | U           |
| 214     | 0207590F               | Seek Eagle   | 07  | 28,204                  | 25,397                                       | 25,397  |   |  | U           |
| 215     | 0207601F               | USAF Modeling and Simulation                           | 07  | 14,828                  | 10,175                                       | 10,175  |   |  | U           |
| 216     | 0207605F               | Wargaming and Simulation Centers                       | 07  | 4,090                   | 12,839                                       | 12,839  |   |  | U           |
| 217     | 0207610F               | Battlefield Abn Comm Node (BACN)                       | 07  |                         |  |   |   |  | U           |

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|--------------|------------------------------------|----|--------|--------|--------|---|
| 218 0207697F | Distributed Training and Exercises | 07 | 4,241  | 4,190  | 4,190  | U |
| 219 0208006F | Mission Planning Systems           | 07 | 69,104 | 85,531 | 85,531 | U |

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Department of the Air Force  
FY 2019 President's Budget  
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Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line | Program<br>Element<br>No Number | Item  | Act | FY 2018<br>Emergency<br>Requests**<br>Emergency | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>Emergency | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency** | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO + e<br>Emergency | S<br>c |
|------|---------------------------------|---|-----|---|---|---------------------------------------|--|---|--|--------|
| --   | -----                           | ----  | --- | -----   | -----   | -----                                 | -----  | -----   | -----  | -      |
| 201  | 0207277F                        | ISR Innovations   | 07  |   |   |                                       | 5,750  |   | 5,750  | U      |
| 202  | 0207325F                        | Joint Air-to-Surface Standoff<br>Missile (JASSM)          | 07  |   |   |                                       | 29,932   |   | 29,932   | U      |
| 203  | 0207410F                        | Air & Space Operations Center (AOC)                       | 07  |   |   |                                       | 26,956   |   | 26,956   | U      |
| 204  | 0207412F                        | Control and Reporting Center (CRC)                        | 07  |   |   |                                       | 2,450  |   | 2,450  | U      |
| 205  | 0207417F                        | Airborne Warning and Control System<br>(AWACS)            | 07  |   |   |                                       | 151,726  |   | 151,726  | U      |
| 206  | 0207418F                        | Tactical Airborne Control Systems                         | 07  |   |   |                                       | 3,656  |   | 3,656  | U      |
| 208  | 0207431F                        | Combat Air Intelligence System<br>Activities              | 07  |   |   |                                       | 13,420   |   | 13,420   | U      |
| 209  | 0207444F                        | Tactical Air Control Party-Mod                            | 07  |   |   |                                       | 10,623   |   | 10,623   | U      |
| 210  | 0207448F                        | C2ISR Tactical Data Link                                  | 07  |   |   |                                       | 1,754  |   | 1,754  | U      |
| 211  | 0207452F                        | DCAPES  | 07  |   |   |                                       | 17,382   |   | 17,382   | U      |
| 212  | 0207573F                        | National Technical Nuclear Forensics                      | 07  |   |   |                                       | 2,307  |   | 2,307  | U      |
| 213  | 0207581F                        | Joint Surveillance/Target Attack<br>Radar System (JSTARS) | 07  |   |   |                                       |  |   |  | U      |
| 214  | 0207590F                        | Seek Eagle  | 07  |   |   |                                       | 25,397   |   | 25,397   | U      |
| 215  | 0207601F                        | USAF Modeling and Simulation                              | 07  |   |   |                                       | 10,175   |   | 10,175   | U      |
| 216  | 0207605F                        | Wargaming and Simulation Centers                          | 07  |   |   |                                       | 12,839   |   | 12,839   | U      |
| 217  | 0207610F                        | Battlefield Abn Comm Node (BACN)                          | 07  |   |   |                                       |  |   |  | U      |

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|--------------|------------------------------------|----|--------|--------|---|
| 218 0207697F | Distributed Training and Exercises | 07 | 4,190  | 4,190  | U |
| 219 0208006F | Mission Planning Systems           | 07 | 85,531 | 85,531 | U |

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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item   | Act | FY 2019 Base | FY 2019 OCO | FY 2019 Total | Se c |
|---------|------------------------|--|-----|--------------|-------------|---------------|------|
| --      | -----                  | ----   | --- | -----        | -----       | -----         | -    |
| 201     | 0207277F               | ISR Innovations  | 07  |              |             |               | U    |
| 202     | 0207325F               | Joint Air-to-Surface Standoff Missile (JASSM)          | 07  | 60,062       |             | 60,062        | U    |
| 203     | 0207410F               | Air & Space Operations Center (AOC)                    | 07  | 106,102      |             | 106,102       | U    |
| 204     | 0207412F               | Control and Reporting Center (CRC)                     | 07  | 6,413        |             | 6,413         | U    |
| 205     | 0207417F               | Airborne Warning and Control System (AWACS)            | 07  | 120,664      |             | 120,664       | U    |
| 206     | 0207418F               | Tactical Airborne Control Systems                      | 07  | 2,659        |             | 2,659         | U    |
| 208     | 0207431F               | Combat Air Intelligence System Activities              | 07  | 10,316       |             | 10,316        | U    |
| 209     | 0207444F               | Tactical Air Control Party-Mod                         | 07  | 6,149        |             | 6,149         | U    |
| 210     | 0207448F               | C2ISR Tactical Data Link                               | 07  | 1,738        |             | 1,738         | U    |
| 211     | 0207452F               | DCAPES   | 07  | 13,297       |             | 13,297        | U    |
| 212     | 0207573F               | National Technical Nuclear Forensics                   | 07  | 1,788        |             | 1,788         | U    |
| 213     | 0207581F               | Joint Surveillance/Target Attack Radar System (JSTARS) | 07  | 14,888       |             | 14,888        | U    |
| 214     | 0207590F               | Seek Eagle   | 07  | 24,699       |             | 24,699        | U    |
| 215     | 0207601F               | USAF Modeling and Simulation                           | 07  | 17,078       |             | 17,078        | U    |
| 216     | 0207605F               | Wargaming and Simulation Centers                       | 07  | 6,141        |             | 6,141         | U    |
| 217     | 0207610F               | Battlefield Abn Comm Node (BACN)                       | 07  |              | 42,349      | 42,349        | U    |

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|--------------|------------------------------------|----|--------|--------|---|
| 218 0207697F | Distributed Training and Exercises | 07 | 4,225  | 4,225  | U |
| 219 0208006F | Mission Planning Systems           | 07 | 63,653 | 63,653 | U |

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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line | Program<br>Element<br>No Number | Item  | Act | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests+<br>with CR Adj<br>OCO | S<br>e<br>c |
|------|---------------------------------|---|-----|-------------------------|--|---|---|--|-------------|
| --   | -----                           | ----  | --- | -----                   | -----  | -----   | -----                                       | -----  | -           |
| 220  | 0208007F                        | Tactical Deception  | 07  |                         | 3,761  | 3,761   |   |  | U           |
| 221  | 0208087F                        | AF Offensive Cyberspace Operations  | 07  | 24,109                  | 35,693                                       | 35,693  | 4,000                                       | 4,000  | U           |
| 222  | 0208088F                        | AF Defensive Cyberspace Operations  | 07  | 38,035                  | 20,964                                       | 20,964  |   |  | U           |
| 223  | 0208097F                        | Joint Cyber Command and Control<br>(JCC2)                                     | 07  |                         |  |   |   |  | U           |
| 224  | 0208099F                        | Unified Platform (UP)   | 07  |                         |  |   |   |  | U           |
| 228  | 0208288F                        | Intel Data Applications   | 07  |                         |  |   |   |  | U           |
| 229  | 0301017F                        | Global Sensor Integrated on Network<br>(GSIN)                                 | 07  | 3,296                   | 3,549  | 3,549   |   |  | U           |
| 230  | 0301112F                        | Nuclear Planning and Execution<br>System (NPES)                               | 07  | 3,926                   | 4,371  | 4,371   |   |  | U           |
| 236  | 0301400F                        | Space Superiority Intelligence  | 07  | 12,380                  |  |   |   |  | U           |
| 237  | 0301401F                        | Air Force Space and Cyber<br>Non-Traditional ISR for Battlespace<br>Awareness | 07  |                         | 3,721  | 3,721   |   |  | U           |
| 238  | 0302015F                        | E-4B National Airborne Operations<br>Center (NAOC)                            | 07  | 25,104                  | 35,467                                       | 35,467  |   |  | U           |
| 239  | 0303001F                        | Family of Advanced BLoS Terminals<br>(FAB-T)                                  | 07  | 50,071                  |  |   |   |  | U           |
| 240  | 0303131F                        | Minimum Essential Emergency<br>Communications Network (MEECN)                 | 07  | 40,099                  | 48,841                                       | 48,841  |   |  | U           |
| 241  | 0303133F                        | High Frequency Radio Systems  | 07  |                         |  |   |   |  | U           |

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|-----|----------|---|--------|--------|--------|---|
| 242 | 0303140F | Information Systems Security Program 07 | 36,074 | 42,973 | 42,973 | U |
| 243 | 0303141F | Global Combat Support System 07         | 50     | 105    | 105    | U |

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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line | Program<br>Element<br>No Number | Item<br>-----   | Act<br>--- | FY 2018<br>Emergency<br>Requests**<br>----- | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs<br>----- | FY 2018<br>Remaining Req<br>Emergency<br>----- | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency**<br>----- | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs<br>----- | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO + e<br>Emergency<br>----- | S<br>c<br>- |
|------|---------------------------------|---|------------|---|--|--|---|--|---|-------------|
| 220  | 0208007F                        | Tactical Deception  | 07         |   |  |  | 3,761   |  | 3,761   | U           |
| 221  | 0208087F                        | AF Offensive Cyberspace Operations  | 07         |   |  |  | 39,693  |  | 39,693  | U           |
| 222  | 0208088F                        | AF Defensive Cyberspace Operations  | 07         |   |  |  | 20,964  |  | 20,964  | U           |
| 223  | 0208097F                        | Joint Cyber Command and Control<br>(JCC2)                                     | 07         |   |  |  |   |  |   | U           |
| 224  | 0208099F                        | Unified Platform (UP)   | 07         |   |  |  |   |  |   | U           |
| 228  | 0208288F                        | Intel Data Applications   | 07         |   |  |  |   |  |   | U           |
| 229  | 0301017F                        | Global Sensor Integrated on Network<br>(GSIN)                                 | 07         |   |  |  | 3,549   |  | 3,549   | U           |
| 230  | 0301112F                        | Nuclear Planning and Execution<br>System (NPES)                               | 07         |   |  |  | 4,371   |  | 4,371   | U           |
| 236  | 0301400F                        | Space Superiority Intelligence  | 07         |   |  |  |   |  |   | U           |
| 237  | 0301401F                        | Air Force Space and Cyber<br>Non-Traditional ISR for Battlespace<br>Awareness | 07         |   |  |  | 3,721   |  | 3,721   | U           |
| 238  | 0302015F                        | E-4B National Airborne Operations<br>Center (NAOC)                            | 07         |   |  |  | 35,467  |  | 35,467  | U           |
| 239  | 0303001F                        | Family of Advanced BLoS Terminals<br>(FAB-T)                                  | 07         |   |  |  |   |  |   | U           |
| 240  | 0303131F                        | Minimum Essential Emergency<br>Communications Network (MEECN)                 | 07         |   |  |  | 48,841  |  | 48,841  | U           |
| 241  | 0303133F                        | High Frequency Radio Systems  | 07         |   |  |  |   |  |   | U           |

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|-----|----------|--------------------------------------|----|--------|--------|---|
| 242 | 0303140F | Information Systems Security Program | 07 | 42,973 | 42,973 | U |
| 243 | 0303141F | Global Combat Support System         | 07 | 105    | 105    | U |

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Department of the Air Force  
 FY 2019 President's Budget  
 Exhibit R-1 FY 2019 President's Budget  
 Total Obligational Authority  
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01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item  | Act | FY 2019 Base | FY 2019 OCO | FY 2019 Total | Se c |
|---------|------------------------|---|-----|--------------|-------------|---------------|------|
| --      | -----                  | ----  | --- | -----        | -----       | -----         | -    |
| 220     | 0208007F               | Tactical Deception  | 07  | 6,949        |             | 6,949         | U    |
| 221     | 0208087F               | AF Offensive Cyberspace Operations                                      | 07  | 40,526       |             | 40,526        | U    |
| 222     | 0208088F               | AF Defensive Cyberspace Operations                                      | 07  | 24,166       |             | 24,166        | U    |
| 223     | 0208097F               | Joint Cyber Command and Control (JCC2)                                  | 07  | 13,000       |             | 13,000        | U    |
| 224     | 0208099F               | Unified Platform (UP)   | 07  | 28,759       |             | 28,759        | U    |
| 228     | 0208288F               | Intel Data Applications   | 07  |              | 1,200       | 1,200         | U    |
| 229     | 0301017F               | Global Sensor Integrated on Network (GSIN)                              | 07  | 3,579        |             | 3,579         | U    |
| 230     | 0301112F               | Nuclear Planning and Execution System (NPES)                            | 07  | 29,620       |             | 29,620        | U    |
| 236     | 0301400F               | Space Superiority Intelligence  | 07  |              |             |               | U    |
| 237     | 0301401F               | Air Force Space and Cyber Non-Traditional ISR for Battlespace Awareness | 07  | 6,633        |             | 6,633         | U    |
| 238     | 0302015F               | E-4B National Airborne Operations Center (NAOC)                         | 07  | 57,758       |             | 57,758        | U    |
| 239     | 0303001F               | Family of Advanced BLoS Terminals (FAB-T)                               | 07  |              |             |               | U    |
| 240     | 0303131F               | Minimum Essential Emergency Communications Network (MEECN)              | 07  | 99,088       |             | 99,088        | U    |
| 241     | 0303133F               | High Frequency Radio Systems  | 07  | 51,612       |             | 51,612        | U    |

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|-----|----------|---|--------|--------|---|
| 242 | 0303140F | Information Systems Security Program 07 | 34,612 | 34,612 | U |
| 243 | 0303141F | Global Combat Support System            | 07     |        | U |

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Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

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Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item   | Act | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests+<br>with CR Adj<br>OCO | S<br>e<br>c |
|---------|------------------------|--|-----|-------------------------|--|---|---|--|-------------|
| --      | -----                  | ----   | --- | -----                   | -----  | -----   | -----                                       | -----  | -           |
| 244     | 0303142F               | Global Force Management - Data Initiative                  | 07  | 1,851                   | 2,147  | 2,147   |   |  | U           |
| 246     | 0304260F               | Airborne SIGINT Enterprise                                 | 07  | 95,284                  | 121,948                                      | 121,948   |   |  | U           |
| 247     | 0304310F               | Commercial Economic Analysis                               | 07  |                         | 3,544  | 3,544   |   |  | U           |
| 250     | 0305015F               | C2 Air Operations Suite - C2 Info Services                 | 07  |                         |  |   |   |  | U           |
| 251     | 0305020F               | CCMD Intelligence Information Technology                   | 07  | 1,507                   | 1,542  | 1,542   |   |  | U           |
| 252     | 0305099F               | Global Air Traffic Management (GATM)                       | 07  | 4,219                   | 4,453  | 4,453   |   |  | U           |
| 253     | 0305110F               | Satellite Control Network (SPACE)                          | 07  | 14,099                  |  |   |   |  | U           |
| 254     | 0305111F               | Weather Service  | 07  | 24,193                  | 26,654                                       | 26,654  |   |  | U           |
| 255     | 0305114F               | Air Traffic Control, Approach, and Landing System (ATCALs) | 07  | 17,732                  | 6,306  | 6,306   |   |  | U           |
| 256     | 0305116F               | Aerial Targets   | 07  | 2,981                   | 21,295                                       | 21,295  |   |  | U           |
| 259     | 0305128F               | Security and Investigative Activities                      | 07  | 405                     | 415  | 415   |   |  | U           |
| 260     | 0305145F               | Arms Control Implementation                                | 07  | 4,667                   |  |   |   |  | U           |
| 261     | 0305146F               | Defense Joint Counterintelligence Activities               | 07  | 339                     | 3,867  | 3,867   |   |  | U           |
| 264     | 0305173F               | Space and Missile Test and Evaluation Center               | 07  | 4,250                   |  |   |   |  | U           |
| 265     | 0305174F               | Space Innovation, Integration and                          | 07  | 6,233                   |  |   |   |  | U           |

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Rapid Technology Development

266 0305179F Integrated Broadcast Service (IBS) 07 8,833 U

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 Exhibit R-1 FY 2019 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line | Program<br>Element<br>No Number | Item   | Act | FY 2018<br>Emergency<br>Requests**<br>Emergency | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>Emergency | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency** | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO + e<br>Emergency | S<br>c |
|------|---------------------------------|--|-----|---|---|---------------------------------------|--|---|--|--------|
| --   | -----                           | ----   | --- | -----   | -----   | -----                                 | -----  | -----   | -----  | -      |
| 244  | 0303142F                        | Global Force Management - Data Initiative                  | 07  |   |   |                                       | 2,147  |   | 2,147  | U      |
| 246  | 0304260F                        | Airborne SIGINT Enterprise                                 | 07  |   |   |                                       | 121,948  |   | 121,948  | U      |
| 247  | 0304310F                        | Commercial Economic Analysis                               | 07  |   |   |                                       | 3,544  |   | 3,544  | U      |
| 250  | 0305015F                        | C2 Air Operations Suite - C2 Info Services                 | 07  |   |   |                                       |  |   |  | U      |
| 251  | 0305020F                        | CCMD Intelligence Information Technology                   | 07  |   |   |                                       | 1,542  |   | 1,542  | U      |
| 252  | 0305099F                        | Global Air Traffic Management (GATM)                       | 07  |   |   |                                       | 4,453  |   | 4,453  | U      |
| 253  | 0305110F                        | Satellite Control Network (SPACE)                          | 07  |   |   |                                       |  |   |  | U      |
| 254  | 0305111F                        | Weather Service  | 07  |   |   |                                       | 26,654   |   | 26,654   | U      |
| 255  | 0305114F                        | Air Traffic Control, Approach, and Landing System (ATCALS) | 07  |   |   |                                       | 6,306  |   | 6,306  | U      |
| 256  | 0305116F                        | Aerial Targets   | 07  |   |   |                                       | 21,295   |   | 21,295   | U      |
| 259  | 0305128F                        | Security and Investigative Activities                      | 07  |   |   |                                       | 415  |   | 415  | U      |
| 260  | 0305145F                        | Arms Control Implementation                                | 07  |   |   |                                       |  |   |  | U      |
| 261  | 0305146F                        | Defense Joint Counterintelligence Activities               | 07  |   |   |                                       | 3,867  |   | 3,867  | U      |
| 264  | 0305173F                        | Space and Missile Test and Evaluation Center               | 07  |   |   |                                       |  |   |  | U      |
| 265  | 0305174F                        | Space Innovation, Integration and                          | 07  |   |   |                                       |  |   |  | U      |

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Rapid Technology Development

266 0305179F Integrated Broadcast Service (IBS) 07

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Department of the Air Force  
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 Exhibit R-1 FY 2019 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line<br>No | Program<br>Element<br>Number | Item   | Act | FY 2019<br>Base | FY 2019<br>OCO | FY 2019<br>Total | S<br>e<br>c |
|------------|------------------------------|--|-----|-----------------|----------------|------------------|-------------|
| --         | -----                        | ----   | --- | -----           | -----          | -----            | -           |
| 244        | 0303142F                     | Global Force Management - Data Initiative                  | 07  | 2,170           |                | 2,170            | U           |
| 246        | 0304260F                     | Airborne SIGINT Enterprise                                 | 07  | 106,873         |                | 106,873          | U           |
| 247        | 0304310F                     | Commercial Economic Analysis                               | 07  | 3,472           |                | 3,472            | U           |
| 250        | 0305015F                     | C2 Air Operations Suite - C2 Info Services                 | 07  | 8,608           |                | 8,608            | U           |
| 251        | 0305020F                     | CCMD Intelligence Information Technology                   | 07  | 1,586           |                | 1,586            | U           |
| 252        | 0305099F                     | Global Air Traffic Management (GATM)                       | 07  | 4,492           |                | 4,492            | U           |
| 253        | 0305110F                     | Satellite Control Network (SPACE)                          | 07  |                 |                |                  | U           |
| 254        | 0305111F                     | Weather Service  | 07  | 26,942          | 3,000          | 29,942           | U           |
| 255        | 0305114F                     | Air Traffic Control, Approach, and Landing System (ATCALs) | 07  | 6,271           |                | 6,271            | U           |
| 256        | 0305116F                     | Aerial Targets   | 07  | 8,383           |                | 8,383            | U           |
| 259        | 0305128F                     | Security and Investigative Activities                      | 07  | 418             |                | 418              | U           |
| 260        | 0305145F                     | Arms Control Implementation                                | 07  |                 |                |                  | U           |
| 261        | 0305146F                     | Defense Joint Counterintelligence Activities               | 07  | 3,845           |                | 3,845            | U           |
| 264        | 0305173F                     | Space and Missile Test and Evaluation Center               | 07  |                 |                |                  | U           |
| 265        | 0305174F                     | Space Innovation, Integration and                          | 07  |                 |                |                  | U           |

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Rapid Technology Development

266 0305179F Integrated Broadcast Service (IBS) 07

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Total Obligational Authority  
(Dollars in Thousands)

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Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item  | Act | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests+<br>with CR Adj<br>OCO | S<br>e<br>c |
|---------|------------------------|---|-----|-------------------------|--|---|---|--|-------------|
| --      | -----                  | ----  | --- | -----                   | -----  | -----   | -----                                       | -----  | -           |
| 267     | 0305182F               | Spacelift Range System (SPACE)                          | 07  | 21,082                  |  |   |   |  | U           |
| 268     | 0305202F               | Dragon U-2  | 07  | 37,217                  | 34,486                                       | 34,486  |   |  | U           |
| 269     | 0305205F               | Endurance Unmanned Aerial Vehicles                      | 07  | 50,000                  |  |   |   |  | U           |
| 270     | 0305206F               | Airborne Reconnaissance Systems                         | 07  | 13,465                  | 4,450  | 4,450   |   |  | U           |
| 271     | 0305207F               | Manned Reconnaissance Systems                           | 07  | 20,975                  | 14,269                                       | 14,269  |   |  | U           |
| 272     | 0305208F               | Distributed Common Ground/Surface Systems               | 07  | 18,898                  | 27,501                                       | 27,501  |   |  | U           |
| 273     | 0305220F               | RQ-4 UAV  | 07  | 244,807                 | 214,849                                      | 214,849   |   |  | U           |
| 274     | 0305221F               | Network-Centric Collaborative Targeting                 | 07  | 18,088                  | 18,842                                       | 18,842  |   |  | U           |
| 275     | 0305238F               | NATO AGS  | 07  | 38,904                  | 44,729                                       | 44,729  |   |  | U           |
| 276     | 0305240F               | Support to DCGS Enterprise                              | 07  | 23,084                  | 26,349                                       | 26,349  |   |  | U           |
| 277     | 0305265F               | GPS III Space Segment                                   | 07  | 165,794                 |  |   |   |  | U           |
| 278     | 0305600F               | International Intelligence Technology and Architectures | 07  | 2,360                   | 3,491  | 3,491   |   |  | U           |
| 279     | 0305614F               | JSPOC Mission System                                    | 07  | 76,467                  |  |   |   |  | U           |
| 280     | 0305881F               | Rapid Cyber Acquisition                                 | 07  | 4,123                   | 4,899  | 4,899   |   |  | U           |
| 281     | 0305906F               | NCMC - TW/AA System                                     | 07  | 4,951                   |  |   |   |  | U           |
| 282     | 0305913F               | NUDET Detection System (SPACE)                          | 07  | 21,093                  |  |   |   |  | U           |
| 283     | 0305940F               | Space Situation Awareness Operations                    | 07  | 92,482                  |  |   |   |  | U           |

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|--------------|---|----|-------|-------|---|
| 284 0305984F | Personnel Recovery Command & Ctrl<br>(PRC2) | 07 | 2,445 | 2,445 | U |
|--------------|---|----|-------|-------|---|

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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line | Program<br>Element<br>No Number | Item<br>-----  | Act<br>--- | FY 2018<br>Emergency<br>Requests**<br>----- | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs<br>----- | FY 2018<br>Remaining Req<br>Emergency<br>----- | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency**<br>----- | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs<br>----- | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO + e<br>Emergency<br>----- | S<br>c<br>- |
|------|---------------------------------|--|------------|---|--|--|---|--|---|-------------|
| 267  | 0305182F                        | Spacelift Range System (SPACE)                             | 07         |   |  |  |   |  |   | U           |
| 268  | 0305202F                        | Dragon U-2   | 07         |   |  |  | 34,486  |  | 34,486  | U           |
| 269  | 0305205F                        | Endurance Unmanned Aerial Vehicles                         | 07         |   |  |  |   |  |   | U           |
| 270  | 0305206F                        | Airborne Reconnaissance Systems                            | 07         |   |  |  | 4,450   |  | 4,450   | U           |
| 271  | 0305207F                        | Manned Reconnaissance Systems                              | 07         |   |  |  | 14,269  |  | 14,269  | U           |
| 272  | 0305208F                        | Distributed Common Ground/Surface<br>Systems               | 07         |   |  |  | 27,501  |  | 27,501  | U           |
| 273  | 0305220F                        | RQ-4 UAV   | 07         |   |  |  | 214,849   |  | 214,849   | U           |
| 274  | 0305221F                        | Network-Centric Collaborative<br>Targeting                 | 07         |   |  |  | 18,842  |  | 18,842  | U           |
| 275  | 0305238F                        | NATO AGS   | 07         |   |  |  | 44,729  |  | 44,729  | U           |
| 276  | 0305240F                        | Support to DCGS Enterprise                                 | 07         |   |  |  | 26,349  |  | 26,349  | U           |
| 277  | 0305265F                        | GPS III Space Segment                                      | 07         |   |  |  |   |  |   | U           |
| 278  | 0305600F                        | International Intelligence<br>Technology and Architectures | 07         |   |  |  | 3,491   |  | 3,491   | U           |
| 279  | 0305614F                        | JSPOC Mission System                                       | 07         |   |  |  |   |  |   | U           |
| 280  | 0305881F                        | Rapid Cyber Acquisition                                    | 07         |   |  |  | 4,899   |  | 4,899   | U           |
| 281  | 0305906F                        | NCMC - TW/AA System  | 07         |   |  |  |   |  |   | U           |
| 282  | 0305913F                        | NUDET Detection System (SPACE)                             | 07         |   |  |  |   |  |   | U           |
| 283  | 0305940F                        | Space Situation Awareness Operations                       | 07         |   |  |  |   |  |   | U           |

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|--------------|-----------------------------------|----|-------|-------|---|
| 284 0305984F | Personnel Recovery Command & Ctrl | 07 | 2,445 | 2,445 | U |
| (PRC2)       |                                   |    |       |       |   |

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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line<br>No | Program<br>Element<br>Number | Item  | Act | FY 2019<br>Base | FY 2019<br>OCO | FY 2019<br>Total | S<br>e<br>c |
|------------|------------------------------|---|-----|-----------------|----------------|------------------|-------------|
| --         | -----                        | ----  | --- | -----           | -----          | -----            | -           |
| 267        | 0305182F                     | Spacelift Range System (SPACE)                          | 07  |                 |                |                  | U           |
| 268        | 0305202F                     | Dragon U-2  | 07  | 48,518          | 22,100         | 70,618           | U           |
| 269        | 0305205F                     | Endurance Unmanned Aerial Vehicles                      | 07  |                 |                |                  | U           |
| 270        | 0305206F                     | Airborne Reconnaissance Systems                         | 07  | 175,334         |                | 175,334          | U           |
| 271        | 0305207F                     | Manned Reconnaissance Systems                           | 07  | 14,223          |                | 14,223           | U           |
| 272        | 0305208F                     | Distributed Common Ground/Surface Systems               | 07  | 24,554          | 29,500         | 54,054           | U           |
| 273        | 0305220F                     | RQ-4 UAV  | 07  | 221,690         |                | 221,690          | U           |
| 274        | 0305221F                     | Network-Centric Collaborative Targeting                 | 07  | 14,288          |                | 14,288           | U           |
| 275        | 0305238F                     | NATO AGS  | 07  | 51,527          |                | 51,527           | U           |
| 276        | 0305240F                     | Support to DCGS Enterprise                              | 07  | 26,579          |                | 26,579           | U           |
| 277        | 0305265F                     | GPS III Space Segment                                   | 07  |                 |                |                  | U           |
| 278        | 0305600F                     | International Intelligence Technology and Architectures | 07  | 8,464           |                | 8,464            | U           |
| 279        | 0305614F                     | JSPOC Mission System                                    | 07  |                 |                |                  | U           |
| 280        | 0305881F                     | Rapid Cyber Acquisition                                 | 07  | 4,303           |                | 4,303            | U           |
| 281        | 0305906F                     | NCMC - TW/AA System                                     | 07  |                 |                |                  | U           |
| 282        | 0305913F                     | NUDET Detection System (SPACE)                          | 07  |                 |                |                  | U           |
| 283        | 0305940F                     | Space Situation Awareness Operations                    | 07  |                 |                |                  | U           |

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|--------------|-----------------------------------|----|-------|-------|---|
| 284 0305984F | Personnel Recovery Command & Ctrl | 07 | 2,466 | 2,466 | U |
|              | (PRC2)                            |    |       |       |   |

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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item                                       | Act | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests+<br>with CR Adj<br>OCO | S<br>e<br>c |
|---------|------------------------|--|-----|-------------------------|--|---|---|--|-------------|
| --      | -----                  | ----                                       | --- | -----                   | -----  | -----   | -----                                       | -----  | -           |
| 285     | 0307577F               | Intelligence Mission Data (IMD)            | 07  |                         | 8,684  | 8,684   |   |  | U           |
| 286     | 0308699F               | Shared Early Warning (SEW)                 | 07  | 6,154                   |  |   |   |  | U           |
| 287     | 0401115F               | C-130 Airlift Squadron                     | 07  | 15,599                  | 10,219                                       | 10,219  |   |  | U           |
| 288     | 0401119F               | C-5 Airlift Squadrons (IF)                 | 07  | 65,057                  | 22,758                                       | 22,758  |   |  | U           |
| 289     | 0401130F               | C-17 Aircraft (IF)                         | 07  | 12,021                  | 34,287                                       | 34,287  |   |  | U           |
| 290     | 0401132F               | C-130J Program                             | 07  | 16,199                  | 26,821                                       | 26,821  |   |  | U           |
| 291     | 0401134F               | Large Aircraft IR Countermeasures (LAIRCM) | 07  | 5,011                   | 5,283  | 5,283   |   |  | U           |
| 292     | 0401218F               | KC-135s                                    | 07  |                         | 9,942  | 9,942   |   |  | U           |
| 293     | 0401219F               | KC-10s                                     | 07  | 3,500                   | 7,933  | 7,933   |   |  | U           |
| 294     | 0401314F               | Operational Support Airlift                | 07  | 13,332                  | 6,681  | 6,681   |   |  | U           |
| 295     | 0401318F               | CV-22                                      | 07  | 27,704                  | 22,519                                       | 22,519  |   |  | U           |
| 296     | 0401840F               | AMC Command and Control System             | 07  |                         | 3,510  | 3,510   |   |  | U           |
| 297     | 0408011F               | Special Tactics / Combat Control           | 07  | 6,902                   | 8,090  | 8,090   |   |  | U           |
| 298     | 0702207F               | Depot Maintenance (Non-IF)                 | 07  | 1,507                   | 1,528  | 1,528   |   |  | U           |
| 299     | 0708055F               | Maintenance, Repair & Overhaul System      | 07  |                         | 31,677                                       | 31,677  |   |  | U           |
| 300     | 0708610F               | Logistics Information Technology (LOGIT)   | 07  | 53,369                  | 33,344                                       | 33,344  |   |  | U           |
| 301     | 0708611F               | Support Systems Development                | 07  | 10,552                  | 9,362  | 9,362   |   |  | U           |

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|--------------|-----------------------|----|-------|-------|-------|---|
| 302 0804743F | Other Flight Training | 07 | 1,841 | 2,074 | 2,074 | U |
|--------------|-----------------------|----|-------|-------|-------|---|

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Total Obligational Authority  
(Dollars in Thousands)

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Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line | Program<br>Element<br>No Number | Item  | Act | FY 2018<br>Emergency<br>Requests** | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>Emergency | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency** | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO + e<br>Emergency | S<br>c |
|------|---------------------------------|---|-----|------------------------------------|---|---------------------------------------|--|---|--|--------|
| --   | -----                           | ----  | --- | -----                              | -----   | -----                                 | -----  | -----   | -----  | -      |
| 285  | 0307577F                        | Intelligence Mission Data (IMD)               | 07  |                                    |   |                                       | 8,684  |   | 8,684  | U      |
| 286  | 0308699F                        | Shared Early Warning (SEW)                    | 07  |                                    |   |                                       |  |   |  | U      |
| 287  | 0401115F                        | C-130 Airlift Squadron                        | 07  |                                    |   |                                       | 10,219   |   | 10,219   | U      |
| 288  | 0401119F                        | C-5 Airlift Squadrons (IF)                    | 07  |                                    |   |                                       | 22,758   |   | 22,758   | U      |
| 289  | 0401130F                        | C-17 Aircraft (IF)                            | 07  |                                    |   |                                       | 34,287   |   | 34,287   | U      |
| 290  | 0401132F                        | C-130J Program                                | 07  |                                    |   |                                       | 26,821   |   | 26,821   | U      |
| 291  | 0401134F                        | Large Aircraft IR Countermeasures<br>(LAIRCM) | 07  |                                    |   |                                       | 5,283  |   | 5,283  | U      |
| 292  | 0401218F                        | KC-135s                                       | 07  |                                    |   |                                       | 9,942  |   | 9,942  | U      |
| 293  | 0401219F                        | KC-10s  | 07  |                                    |   |                                       | 7,933  |   | 7,933  | U      |
| 294  | 0401314F                        | Operational Support Airlift                   | 07  |                                    |   |                                       | 6,681  |   | 6,681  | U      |
| 295  | 0401318F                        | CV-22   | 07  |                                    |   |                                       | 22,519   |   | 22,519   | U      |
| 296  | 0401840F                        | AMC Command and Control System                | 07  |                                    |   |                                       | 3,510  |   | 3,510  | U      |
| 297  | 0408011F                        | Special Tactics / Combat Control              | 07  |                                    |   |                                       | 8,090  |   | 8,090  | U      |
| 298  | 0702207F                        | Depot Maintenance (Non-IF)                    | 07  |                                    |   |                                       | 1,528  |   | 1,528  | U      |
| 299  | 0708055F                        | Maintenance, Repair & Overhaul<br>System      | 07  |                                    |   |                                       | 31,677   |   | 31,677   | U      |
| 300  | 0708610F                        | Logistics Information Technology<br>(LOGIT)   | 07  |                                    |   |                                       | 33,344   |   | 33,344   | U      |
| 301  | 0708611F                        | Support Systems Development                   | 07  |                                    |   |                                       | 9,362  |   | 9,362  | U      |

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| 302 0804743F | Other Flight Training | 07 | 2,074 | 2,074 | U |
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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line<br>No | Program<br>Element<br>Number | Item                                       | Act | FY 2019<br>Base | FY 2019<br>OCO | FY 2019<br>Total | S<br>e<br>c |
|------------|------------------------------|--|-----|-----------------|----------------|------------------|-------------|
| --         | -----                        | ----                                       | --- | -----           | -----          | -----            | -           |
| 285        | 0307577F                     | Intelligence Mission Data (IMD)            | 07  | 4,117           |                | 4,117            | U           |
| 286        | 0308699F                     | Shared Early Warning (SEW)                 | 07  |                 |                |                  | U           |
| 287        | 0401115F                     | C-130 Airlift Squadron                     | 07  | 105,988         |                | 105,988          | U           |
| 288        | 0401119F                     | C-5 Airlift Squadrons (IF)                 | 07  | 25,071          |                | 25,071           | U           |
| 289        | 0401130F                     | C-17 Aircraft (IF)                         | 07  | 48,299          |                | 48,299           | U           |
| 290        | 0401132F                     | C-130J Program                             | 07  | 15,409          |                | 15,409           | U           |
| 291        | 0401134F                     | Large Aircraft IR Countermeasures (LAIRCM) | 07  | 4,334           |                | 4,334            | U           |
| 292        | 0401218F                     | KC-135s                                    | 07  | 3,493           |                | 3,493            | U           |
| 293        | 0401219F                     | KC-10s                                     | 07  | 6,569           |                | 6,569            | U           |
| 294        | 0401314F                     | Operational Support Airlift                | 07  | 3,172           |                | 3,172            | U           |
| 295        | 0401318F                     | CV-22                                      | 07  | 18,502          |                | 18,502           | U           |
| 296        | 0401840F                     | AMC Command and Control System             | 07  | 1,688           |                | 1,688            | U           |
| 297        | 0408011F                     | Special Tactics / Combat Control           | 07  | 2,541           |                | 2,541            | U           |
| 298        | 0702207F                     | Depot Maintenance (Non-IF)                 | 07  | 1,897           |                | 1,897            | U           |
| 299        | 0708055F                     | Maintenance, Repair & Overhaul System      | 07  | 50,933          |                | 50,933           | U           |
| 300        | 0708610F                     | Logistics Information Technology (LOGIT)   | 07  | 13,787          |                | 13,787           | U           |
| 301        | 0708611F                     | Support Systems Development                | 07  | 4,497           |                | 4,497            | U           |

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| 302 0804743F | Other Flight Training | 07 | 2,022 | 2,022 | U |
|--------------|-----------------------|----|-------|-------|---|

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Department of the Air Force  
FY 2019 President's Budget  
Exhibit R-1 FY 2019 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number | Item   | Act | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>OCO | + S<br>e<br>c |
|---------|------------------------|--|-----|-------------------------|--|---|---|--|---------------|
| --      | -----                  | ----   | --- | -----                   | -----  | -----   | -----                                       | -----  | -             |
| 303     | 0808716F               | Other Personnel Activities                                     | 07  | 57                      | 107  | 107   |   |  | U             |
| 304     | 0901202F               | Joint Personnel Recovery Agency                                | 07  | 3,556                   | 2,006  | 2,006   |   |  | U             |
| 305     | 0901218F               | Civilian Compensation Program                                  | 07  | 2,878                   | 3,780  | 3,780   |   |  | U             |
| 306     | 0901220F               | Personnel Administration                                       | 07  | 4,968                   | 7,472  | 7,472   |   |  | U             |
| 307     | 0901226F               | Air Force Studies and Analysis Agency                          | 07  | 1,415                   | 1,563  | 1,563   |   |  | U             |
| 308     | 0901538F               | Financial Management Information Systems Development           | 07  | 10,478                  | 91,211                                       | 91,211  |   |  | U             |
| 309     | 1201921F               | Service Support to STRATCOM - Space Activities                 | 07  |                         | 14,255                                       | 14,255  |   |  | U             |
| 310     | 1202247F               | AF TENCAP  | 07  |                         | 31,914                                       | 31,914  |   |  | U             |
| 311     | 1203001F               | Family of Advanced BLoS Terminals (FAB-T)                      | 07  |                         | 32,426                                       | 32,426  |   |  | U             |
| 312     | 1203110F               | Satellite Control Network (SPACE)                              | 07  |                         | 18,808                                       | 18,808  |   |  | U             |
| 314     | 1203165F               | NAVSTAR Global Positioning System (Space and Control Segments) | 07  |                         | 10,029                                       | 10,029  |   |  | U             |
| 315     | 1203173F               | Space and Missile Test and Evaluation Center                   | 07  |                         | 25,051                                       | 25,051  |   |  | U             |
| 316     | 1203174F               | Space Innovation, Integration and Rapid Technology Development | 07  |                         | 11,390                                       | 11,390  |   |  | U             |
| 317     | 1203179F               | Integrated Broadcast Service (IBS)                             | 07  |                         | 8,747  | 8,747   |   |  | U             |
| 318     | 1203182F               | Spacelift Range System (SPACE)                                 | 07  |                         | 10,549                                       | 10,549  |   |  | U             |

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|--------------|-----------------------|----|---------|---------|---|
| 319 1203265F | GPS III Space Segment | 07 | 243,435 | 243,435 | U |
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Department of the Air Force  
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 Exhibit R-1 FY 2019 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line | Program<br>Element<br>No Number | Item  | Act | FY 2018<br>Emergency<br>Requests** | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>Emergency | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency** | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO + e<br>Emergency | S<br>c |
|------|---------------------------------|---|-----|------------------------------------|---|---------------------------------------|--|---|--|--------|
| --   | -----                           | ----  | --- | -----                              | -----   | -----                                 | -----  | -----   | -----  | -      |
| 303  | 0808716F                        | Other Personnel Activities  | 07  |                                    |   |                                       | 107  |   | 107  | U      |
| 304  | 0901202F                        | Joint Personnel Recovery Agency                                   | 07  |                                    |   |                                       | 2,006  |   | 2,006  | U      |
| 305  | 0901218F                        | Civilian Compensation Program                                     | 07  |                                    |   |                                       | 3,780  |   | 3,780  | U      |
| 306  | 0901220F                        | Personnel Administration  | 07  |                                    |   |                                       | 7,472  |   | 7,472  | U      |
| 307  | 0901226F                        | Air Force Studies and Analysis<br>Agency                          | 07  |                                    |   |                                       | 1,563  |   | 1,563  | U      |
| 308  | 0901538F                        | Financial Management Information<br>Systems Development           | 07  |                                    |   |                                       | 91,211   |   | 91,211   | U      |
| 309  | 1201921F                        | Service Support to STRATCOM - Space<br>Activities                 | 07  |                                    |   |                                       | 14,255   |   | 14,255   | U      |
| 310  | 1202247F                        | AF TENCAP   | 07  |                                    |   |                                       | 31,914   |   | 31,914   | U      |
| 311  | 1203001F                        | Family of Advanced BLoS Terminals<br>(FAB-T)                      | 07  |                                    |   |                                       | 32,426   |   | 32,426   | U      |
| 312  | 1203110F                        | Satellite Control Network (SPACE)                                 | 07  |                                    |   |                                       | 18,808   |   | 18,808   | U      |
| 314  | 1203165F                        | NAVSTAR Global Positioning System<br>(Space and Control Segments) | 07  |                                    |   |                                       | 10,029   |   | 10,029   | U      |
| 315  | 1203173F                        | Space and Missile Test and<br>Evaluation Center                   | 07  |                                    |   |                                       | 25,051   |   | 25,051   | U      |
| 316  | 1203174F                        | Space Innovation, Integration and<br>Rapid Technology Development | 07  |                                    |   |                                       | 11,390   |   | 11,390   | U      |
| 317  | 1203179F                        | Integrated Broadcast Service (IBS)                                | 07  |                                    |   |                                       | 8,747  |   | 8,747  | U      |
| 318  | 1203182F                        | Spacelift Range System (SPACE)                                    | 07  |                                    |   |                                       | 10,549   |   | 10,549   | U      |

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|--------------|-----------------------|----|---------|---------|---|
| 319 1203265F | GPS III Space Segment | 07 | 243,435 | 243,435 | U |
|--------------|-----------------------|----|---------|---------|---|

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 Total Obligational Authority  
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01 Feb 2018

Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line<br>No<br>-- | Program<br>Element<br>Number<br>----- | Item<br>-----   | Act<br>--- | FY 2019<br>Base<br>----- | FY 2019<br>OCO<br>----- | FY 2019<br>Total<br>----- | S<br>e<br>c<br>- |
|------------------|---------------------------------------|---|------------|--------------------------|-------------------------|---------------------------|------------------|
| 303              | 0808716F                              | Other Personnel Activities  | 07         | 108                      |                         | 108                       | U                |
| 304              | 0901202F                              | Joint Personnel Recovery Agency                                   | 07         | 2,023                    |                         | 2,023                     | U                |
| 305              | 0901218F                              | Civilian Compensation Program                                     | 07         | 3,772                    |                         | 3,772                     | U                |
| 306              | 0901220F                              | Personnel Administration  | 07         | 6,358                    |                         | 6,358                     | U                |
| 307              | 0901226F                              | Air Force Studies and Analysis<br>Agency                          | 07         | 1,418                    |                         | 1,418                     | U                |
| 308              | 0901538F                              | Financial Management Information<br>Systems Development           | 07         | 99,734                   |                         | 99,734                    | U                |
| 309              | 1201921F                              | Service Support to STRATCOM - Space<br>Activities                 | 07         | 14,161                   |                         | 14,161                    | U                |
| 310              | 1202247F                              | AF TENCAP   | 07         | 26,986                   | 5,000                   | 31,986                    | U                |
| 311              | 1203001F                              | Family of Advanced BLoS Terminals<br>(FAB-T)                      | 07         | 80,168                   |                         | 80,168                    | U                |
| 312              | 1203110F                              | Satellite Control Network (SPACE)                                 | 07         | 17,808                   |                         | 17,808                    | U                |
| 314              | 1203165F                              | NAVSTAR Global Positioning System<br>(Space and Control Segments) | 07         | 8,937                    |                         | 8,937                     | U                |
| 315              | 1203173F                              | Space and Missile Test and<br>Evaluation Center                   | 07         | 59,935                   |                         | 59,935                    | U                |
| 316              | 1203174F                              | Space Innovation, Integration and<br>Rapid Technology Development | 07         | 21,019                   |                         | 21,019                    | U                |
| 317              | 1203179F                              | Integrated Broadcast Service (IBS)                                | 07         | 8,568                    |                         | 8,568                     | U                |
| 318              | 1203182F                              | Spacelift Range System (SPACE)                                    | 07         | 10,641                   |                         | 10,641                    | U                |

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|--------------|-----------------------|----|---------|---------|---|
| 319 1203265F | GPS III Space Segment | 07 | 144,543 | 144,543 | U |
|--------------|-----------------------|----|---------|---------|---|

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Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line  | Program<br>Element<br>No Number        | Item   | Act | FY 2017<br>(Base + OCO) | FY 2018<br>PB Request<br>with CR Adj<br>Base | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base | FY 2018<br>PB Request<br>with CR Adj<br>OCO | FY 2018<br>Total<br>PB Requests+<br>with CR Adj<br>OCO | S<br>e<br>c |
|-------|--|--|-----|-------------------------|--|---|---|--|-------------|
| --    | -----                                  | ----   | --- | -----                   | -----  | -----   | -----                                       | -----  | -           |
| 320   | 1203400F                               | Space Superiority Intelligence                                 | 07  |                         | 12,691                                       | 12,691  |   |  | U           |
| 321   | 1203614F                               | JSpOC Mission System   | 07  |                         | 99,455                                       | 99,455  |   |  | U           |
| 322   | 1203620F                               | National Space Defense Center                                  | 07  |                         | 18,052                                       | 18,052  |   |  | U           |
| 323   | 1203699F                               | Shared Early Warning (SEW)                                     | 07  |                         | 1,373  | 1,373   |   |  | U           |
| 324   | 1203906F                               | NCMC - TW/AA System  | 07  |                         | 5,000  | 5,000   |   |  | U           |
| 325   | 1203913F                               | NUDET Detection System (SPACE)                                 | 07  |                         | 31,508                                       | 31,508  |   |  | U           |
| 326   | 1203940F                               | Space Situation Awareness Operations                           | 07  |                         | 99,984                                       | 99,984  |   |  | U           |
| 327   | 1206423F                               | Global Positioning System III -<br>Operational Control Segment | 07  |                         | 510,938                                      | 510,938   |   |  | U           |
| 9999  | 9999999999                             | Classified Programs  |     | 12,971,689              | 14,938,002                                   | 14,938,002  | 112,408                                     | 112,408  | U           |
|       |  | Operational Systems Development                                |     | 17,256,679              | 20,585,302                                   | 20,585,302  | 122,158                                     | 122,158  |             |
| 328   | 0901560F                               | Continuing Resolution Programs                                 | 20  |                         | -7,336,882                                   | -7,336,882  | 229,847                                     | 229,847  | U           |
|       |  | Undistributed  |     |                         | -7,336,882                                   | -7,336,882  | 229,847                                     | 229,847  |             |
| Total | Research, Development, Test & Eval, AF |  |     | 28,381,681              | 27,577,477                                   | 27,577,477  | 365,205                                     | 365,205  |             |

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Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line | Program<br>Element<br>No Number | Item<br>-----  | Act<br>--- | FY 2018<br>Emergency<br>Requests**<br>----- | FY 2018<br>Less Enacted<br>Div B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs<br>----- | FY 2018<br>Remaining Req<br>Emergency<br>----- | FY 2018<br>Total<br>PB Requests*<br>with CR Adj<br>Base + OCO +<br>Emergency**<br>----- | FY 2018<br>Less Enacted<br>DIV B<br>P.L.115-96***<br>MDDE + Ship<br>Repairs<br>----- | FY 2018<br>Remaining Req<br>with CR Adj<br>Base + OCO +<br>Emergency<br>----- | S<br>c<br>- |
|------|---------------------------------|--|------------|---|--|--|---|--|---|-------------|
| 320  | 1203400F                        | Space Superiority Intelligence                                 | 07         |   |  |  | 12,691  |  | 12,691  | U           |
| 321  | 1203614F                        | JSpOC Mission System   | 07         |   |  |  | 99,455  |  | 99,455  | U           |
| 322  | 1203620F                        | National Space Defense Center                                  | 07         |   |  |  | 18,052  |  | 18,052  | U           |
| 323  | 1203699F                        | Shared Early Warning (SEW)                                     | 07         |   |  |  | 1,373   |  | 1,373   | U           |
| 324  | 1203906F                        | NCMC - TW/AA System  | 07         |   |  |  | 5,000   |  | 5,000   | U           |
| 325  | 1203913F                        | NUDET Detection System (SPACE)                                 | 07         |   |  |  | 31,508  |  | 31,508  | U           |
| 326  | 1203940F                        | Space Situation Awareness Operations                           | 07         |   |  |  | 99,984  |  | 99,984  | U           |
| 327  | 1206423F                        | Global Positioning System III -<br>Operational Control Segment | 07         |   |  |  | 510,938   |  | 510,938   | U           |
| 9999 | 9999999999                      | Classified Programs  |            | 165,244                                     | -165,244   |  | 15,215,654  | -165,244   | 15,050,410  | U           |
|      |                                 | Operational Systems Development                                |            |   |  |  | 20,872,704  |  | 20,707,460  |             |
| 328  | 0901560F                        | Continuing Resolution Programs                                 | 20         |   |  |  | -7,107,035  |  | -7,107,035  | U           |
|      |                                 | Undistributed  |            |   |  |  | -7,107,035  |  | -7,107,035  |             |
|      |                                 | Total Research, Development, Test & Eval, AF                   |            | 255,744                                     | -255,744   |  | 28,198,426  | -255,744   | 27,942,682  |             |

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Appropriation: 3600F Research, Development, Test &amp; Eval, AF

| Line No | Program Element Number                 | Item  | Act | FY 2019 Base | FY 2019 OCO | FY 2019 Total | S e c |
|---------|--|---|-----|--------------|-------------|---------------|-------|
| --      | -----                                  | ----  | --- | -----        | -----       | -----         | -     |
| 320     | 1203400F                               | Space Superiority Intelligence                              | 07  | 16,278       |             | 16,278        | U     |
| 321     | 1203614F                               | JSpOC Mission System  | 07  | 72,256       |             | 72,256        | U     |
| 322     | 1203620F                               | National Space Defense Center                               | 07  | 42,209       |             | 42,209        | U     |
| 323     | 1203699F                               | Shared Early Warning (SEW)                                  | 07  |              |             |               | U     |
| 324     | 1203906F                               | NCMC - TW/AA System   | 07  |              |             |               | U     |
| 325     | 1203913F                               | NUDET Detection System (SPACE)                              | 07  | 19,778       |             | 19,778        | U     |
| 326     | 1203940F                               | Space Situation Awareness Operations                        | 07  | 19,572       |             | 19,572        | U     |
| 327     | 1206423F                               | Global Positioning System III - Operational Control Segment | 07  | 513,235      |             | 513,235       | U     |
| 9999    | 9999999999                             | Classified Programs   |     | 16,247,930   | 474,321     | 16,722,251    | U     |
|         |  | Operational Systems Development                             |     | 22,605,546   | 586,970     | 23,192,516    |       |
| 328     | 0901560F                               | Continuing Resolution Programs                              | 20  |              |             |               | U     |
|         |  | Undistributed   |     |              |             |               |       |
| Total   | Research, Development, Test & Eval, AF |   |     | 39,892,149   | 600,465     | 40,492,614    |       |

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