

|    | Activity Name                                                             | Duration (Work Quarters) | Start Date | Finish Date | % Complete | 2015           |               | 2016           |               |
|----|---------------------------------------------------------------------------|--------------------------|------------|-------------|------------|----------------|---------------|----------------|---------------|
|    |                                                                           |                          |            |             |            | Fourth Quarter | First Quarter | Second Quarter | Third Quarter |
| 1  | System Engineering                                                        | 4.08                     | 9/28/15    | 9/30/16     | 100%       |                |               |                |               |
| 2  | PDS4 Tasks                                                                | 4.08                     | 9/28/15    | 9/30/16     | 100%       |                |               |                |               |
| 3  | Build 6b                                                                  | 2.03                     | 9/28/15    | 3/29/16     | 100%       |                |               |                |               |
| 4  | Operationalize Information Model System                                   | 2.03                     | 9/28/15    | 3/29/16     | 100%       |                |               |                |               |
| 5  | Address PDS4 Data Std Doc RFAs                                            | 2.03                     | 9/28/15    | 3/29/16     | 100%       |                |               |                |               |
| 6  | Support Discipline/Mission Development (LDDs)                             | 2.03                     | 9/28/15    | 3/29/16     | 100%       |                |               |                |               |
| 7  | Geometry Building Block                                                   | 2.03                     | 9/28/15    | 3/29/16     | 100%       |                |               |                |               |
| 8  | Geometry Orbiter                                                          | 2.03                     | 9/28/15    | 3/29/16     | 100%       |                |               |                |               |
| 9  | Geometry Lander                                                           | 2.03                     | 9/28/15    | 3/29/16     | 100%       |                |               |                |               |
| 10 | Cartography (Initial)                                                     | 2.03                     | 9/28/15    | 3/29/16     | 100%       |                |               |                |               |
| 11 | Address Information Model RFAs                                            | 2.03                     | 9/28/15    | 3/29/16     | 100%       |                |               |                |               |
| 12 | Support Service Development                                               | 2.03                     | 9/28/15    | 3/29/16     | 100%       |                |               |                |               |
| 13 | Support IPDA tasks                                                        | 2.03                     | 9/28/15    | 3/29/16     | 100%       |                |               |                |               |
| 14 | Build 7a                                                                  | 2.02                     | 4/1/16     | 9/30/16     | 100%       |                |               |                |               |
| 15 | Operationalize Instrument Model System                                    | 2.02                     | 4/1/16     | 9/30/16     | 100%       |                |               |                |               |
| 16 | Address PDS4 Data Std Doc RFAs                                            | 2.02                     | 4/1/16     | 9/30/16     | 100%       |                |               |                |               |
| 17 | Support Discipline/Mission Development (LDDs)                             | 2.02                     | 4/1/16     | 9/30/16     | 100%       |                |               |                |               |
| 18 | Cartography (Complete)                                                    | 2.02                     | 4/1/16     | 9/30/16     | 100%       |                |               |                |               |
| 19 | Address Information Model RFAs                                            | 2.02                     | 4/1/16     | 9/30/16     | 100%       |                |               |                |               |
| 20 | Support Service Development                                               | 2.02                     | 4/1/16     | 9/30/16     | 100%       |                |               |                |               |
| 21 | Support IPDA tasks                                                        | 2.02                     | 4/1/16     | 9/30/16     | 100%       |                |               |                |               |
| 22 | Development                                                               | 4.08                     | 9/28/15    | 9/30/16     | 90%        |                |               |                |               |
| 23 | Management                                                                | 4.00                     | 9/28/15    | 9/23/16     | 100%       |                |               |                |               |
| 24 | Maintain Schedule/Status Report (On-going Monthly)                        | 4.00                     | 9/28/15    | 9/23/16     | 100%       |                |               |                |               |
| 25 | PDS4 Tasks                                                                | 4.03                     | 10/1/15    | 9/30/16     | 78%        |                |               |                |               |
| 26 | Build 6b                                                                  | 2.02                     | 10/1/15    | 3/31/16     | 82%        |                |               |                |               |
| 27 | Address Open Issues                                                       | 1.91                     | 10/1/15    | 3/22/16     | 100%       |                |               |                |               |
| 28 | Tracking (Develop initial service)                                        | 1.91                     | 10/1/15    | 3/22/16     | 40%        |                |               |                |               |
| 29 | Search (Continue to tune and integrate PDS3 and PDS4 content)             | 1.91                     | 10/1/15    | 3/22/16     | 100%       |                |               |                |               |
| 30 | Tools (Add support for content validation and additional transformations) | 1.91                     | 10/1/15    | 3/22/16     | 85%        |                |               |                |               |
| 31 | Integration, Test, Build and Deliver                                      | 0.11                     | 3/23/16    | 3/31/16     | 100%       |                |               |                |               |
| 32 | Build 7a                                                                  | 2.02                     | 4/1/16     | 9/30/16     | 75%        |                |               |                |               |
| 33 | Address Open Issues                                                       | 1.94                     | 4/1/16     | 9/23/16     | 100%       |                |               |                |               |
| 34 | Tracking (Complete service development)                                   | 1.94                     | 4/1/16     | 9/23/16     | 0%         |                |               |                |               |
| 35 | Model (Integrate into build and configuration environment)                | 1.94                     | 4/1/16     | 9/23/16     | 100%       |                |               |                |               |
|    |                                                                           |                          |            |             |            | Fourth Quarter | First Quarter | Second Quarter | Third Quarter |

|    | Activity Name                                                             | Duration (Work Quarters) | Start Date | Finish Date | % Complete | 2015           | 2016          |                |               |
|----|---------------------------------------------------------------------------|--------------------------|------------|-------------|------------|----------------|---------------|----------------|---------------|
|    |                                                                           |                          |            |             |            | Fourth Quarter | First Quarter | Second Quarter | Third Quarter |
| 36 | Tools (Add support for content validation and additional transformations) | 1.94                     | 4/1/16     | 9/23/16     | 100%       |                |               |                |               |
| 37 | Integration, Test, Build and Deliver                                      | 0.08                     | 9/26/16    | 9/30/16     | 100%       |                |               |                |               |
| 38 | PDS3 Tasks                                                                | 4.00                     | 9/28/15    | 9/23/16     | 100%       |                |               |                |               |
| 39 | Address Open Issues (Generate releases as necessary)                      | 4.00                     | 9/28/15    | 9/23/16     | 100%       |                |               |                |               |
| 40 | NASAView Release 3.14.0                                                   | 0.00                     | 9/6/16     | 9/6/16      | 100%       |                |               |                |               |
| 41 | User/Web Interfaces                                                       | 4.00                     | 9/28/15    | 9/23/16     | 100%       |                |               |                |               |
| 42 | Ongoing Maintenance (As Needed)                                           | 4.00                     | 9/28/15    | 9/23/16     | 100%       |                |               |                |               |
| 43 | Convert operational interfaces to utilize PDS4 infrastructure             | 4.00                     | 9/28/15    | 9/23/16     | 100%       |                |               |                |               |
| 44 | Operations                                                                | 4.08                     | 9/28/15    | 9/30/16     | 100%       |                |               |                |               |
| 45 | Managment / OPS SE                                                        | 4.08                     | 9/28/15    | 9/30/16     | 100%       |                |               |                |               |
| 46 | Annual report                                                             | 4.08                     | 9/28/15    | 9/30/16     | 100%       |                |               |                |               |
| 47 | Maintain Schedule/Status Report (On-going Monthly)                        | 4.02                     | 9/28/15    | 9/26/16     | 100%       |                |               |                |               |
| 48 | Telecon / Working Group support                                           | 4.02                     | 9/28/15    | 9/26/16     | 100%       |                |               |                |               |
| 49 | Database / Releases                                                       | 2.75                     | 1/11/16    | 9/15/16     | 100%       |                |               |                |               |
| 50 | 1R97                                                                      | 0.17                     | 1/11/16    | 1/25/16     | 100%       |                |               |                |               |
| 51 | 1R98                                                                      | 0.15                     | 5/2/16     | 5/13/16     | 100%       |                |               |                |               |
| 52 | 1R99                                                                      | 0.17                     | 9/1/16     | 9/15/16     | 100%       |                |               |                |               |
| 53 | Data Release                                                              | 3.98                     | 9/28/15    | 9/22/16     | 100%       |                |               |                |               |
| 54 | MER1/MER2                                                                 | 3.20                     | 12/1/15    | 9/15/16     | 100%       |                |               |                |               |
| 55 | Release 46                                                                | 0.15                     | 12/1/15    | 12/14/15    | 100%       |                |               |                |               |
| 56 | Release 47                                                                | 0.17                     | 3/1/16     | 3/15/16     | 100%       |                |               |                |               |
| 57 | Release 48                                                                | 0.15                     | 6/1/16     | 6/14/16     | 100%       |                |               |                |               |
| 58 | Release 49                                                                | 0.17                     | 9/1/16     | 9/15/16     | 100%       |                |               |                |               |
| 59 | LRO                                                                       | 3.15                     | 12/1/15    | 9/12/16     | 100%       |                |               |                |               |
| 60 | Release 24                                                                | 0.14                     | 12/1/15    | 12/11/15    | 100%       |                |               |                |               |
| 61 | Release 25                                                                | 0.14                     | 3/1/16     | 3/11/16     | 100%       |                |               |                |               |
| 62 | Release 26                                                                | 0.14                     | 6/1/16     | 6/13/16     | 100%       |                |               |                |               |
| 63 | Release 27                                                                | 0.12                     | 9/1/16     | 9/12/16     | 100%       |                |               |                |               |
| 64 | MRO                                                                       | 3.18                     | 12/1/15    | 9/14/16     | 100%       |                |               |                |               |
| 65 | Release 35                                                                | 0.11                     | 12/1/15    | 12/9/15     | 100%       |                |               |                |               |
| 66 | Release 36                                                                | 0.12                     | 3/1/16     | 3/10/16     | 100%       |                |               |                |               |
| 67 | Release 37                                                                | 0.15                     | 6/1/16     | 6/14/16     | 100%       |                |               |                |               |
| 68 | Release 38                                                                | 0.15                     | 9/1/16     | 9/14/16     | 100%       |                |               |                |               |
| 69 | MSL                                                                       | 2.78                     | 12/1/15    | 8/9/16      | 100%       |                |               |                |               |
| 70 | Release 10                                                                | 0.14                     | 12/1/15    | 12/11/15    | 100%       |                |               |                |               |
| 71 | Release 11                                                                | 0.11                     | 3/1/16     | 3/9/16      | 100%       |                |               |                |               |
| 72 | Release 12                                                                | 0.11                     | 8/1/16     | 8/9/16      | 100%       |                |               |                |               |
| 73 | CAS                                                                       | 3.14                     | 10/1/15    | 7/12/16     | 100%       |                |               |                |               |
|    |                                                                           |                          |            |             |            | Fourth Quarter | First Quarter | Second Quarter | Third Quarter |

|     | Activity Name                                                      | Duration<br>(Work<br>Quarters) | Start Date     | Finish Date    | %<br>Complete | 2015           | 2016          |                |               |
|-----|--------------------------------------------------------------------|--------------------------------|----------------|----------------|---------------|----------------|---------------|----------------|---------------|
|     |                                                                    |                                |                |                |               | Fourth Quarter | First Quarter | Second Quarter | Third Quarter |
| 74  | Release 43                                                         | 0.12                           | 10/1/15        | 10/12/15       | 100%          |                |               |                |               |
| 75  | Release 44                                                         | 0.11                           | 1/1/16         | 1/11/16        | 100%          |                |               |                |               |
| 76  | Release 45                                                         | 0.12                           | 4/1/16         | 4/12/16        | 100%          |                |               |                |               |
| 77  | Release 46                                                         | 0.12                           | 7/1/16         | 7/12/16        | 100%          |                |               |                |               |
| 78  | <b>MESSENGER</b>                                                   | <b>0.15</b>                    | <b>6/1/16</b>  | <b>6/14/16</b> | <b>100%</b>   |                |               |                |               |
| 79  | Release 15                                                         | 0.15                           | 6/1/16         | 6/14/16        | 100%          |                |               |                |               |
| 80  | <b>Odyssey</b>                                                     | <b>3.14</b>                    | <b>10/1/15</b> | <b>7/12/16</b> | <b>100%</b>   |                |               |                |               |
| 81  | Release 53                                                         | 0.06                           | 10/1/15        | 10/6/15        | 100%          |                |               |                |               |
| 82  | Release 54                                                         | 0.12                           | 1/1/16         | 1/12/16        | 100%          |                |               |                |               |
| 83  | Release 55                                                         | 0.12                           | 4/1/16         | 4/12/16        | 100%          |                |               |                |               |
| 84  | Release 56                                                         | 0.12                           | 7/1/16         | 7/12/16        | 100%          |                |               |                |               |
| 85  | <i>SBN new data sets</i>                                           | 3.98                           | 9/28/15        | 9/22/16        | 100%          |                |               |                |               |
| 86  | Data Engineering                                                   | 4.02                           | 9/28/15        | 9/26/16        | 100%          |                |               |                |               |
| 87  | Data Validation/Ingestion                                          | 4.02                           | 9/28/15        | 9/26/16        | 100%          |                |               |                |               |
| 88  | On-going keyword ingestion and update for all missions             | 4.02                           | 9/28/15        | 9/26/16        | 100%          |                |               |                |               |
| 89  | On-going catalog and data ingest for all missions                  | 4.02                           | 9/28/15        | 9/26/16        | 100%          |                |               |                |               |
| 90  | On-going archive working group support                             | 4.02                           | 9/28/15        | 9/26/16        | 100%          |                |               |                |               |
| 91  | Peer Review (on going)                                             | 4.02                           | 9/28/15        | 9/26/16        | 100%          |                |               |                |               |
| 92  | Web Support                                                        | 4.02                           | 9/28/15        | 9/26/16        | 100%          |                |               |                |               |
| 93  | PDS & EN pages maintenance (on-going)                              | 4.02                           | 9/28/15        | 9/26/16        | 100%          |                |               |                |               |
| 94  | Link Check                                                         | 2.49                           | 1/18/16        | 8/30/16        | 100%          |                |               |                |               |
| 95  | Verification/Fix #1                                                | 0.35                           | 1/18/16        | 2/17/16        | 100%          |                |               |                |               |
| 96  | Verification/Fix #2                                                | 0.34                           | 8/1/16         | 8/30/16        | 100%          |                |               |                |               |
| 97  | Infrastructure                                                     | 4.02                           | 9/28/15        | 9/26/16        | 100%          |                |               |                |               |
| 98  | Maintenance and upgrad as needed                                   | 4.02                           | 9/28/15        | 9/26/16        | 100%          |                |               |                |               |
| 99  | Service                                                            | 4.02                           | 9/28/15        | 9/26/16        | 100%          |                |               |                |               |
| 100 | User inquiries handling and Subscription notification list cleanup | 4.02                           | 9/28/15        | 9/26/16        | 100%          |                |               |                |               |
| 101 | Monthly Metrics collection and report                              | 4.02                           | 9/28/15        | 9/26/16        | 100%          |                |               |                |               |
|     |                                                                    |                                |                |                |               | Fourth Quarter | First Quarter | Second Quarter | Third Quarter |