

Releasable

NASA\NASA 1755-1780 (Rev. 2) (Sufficient)

Submitted: 11/16/2018

Approved: 11/20/2018

| | <i>First Name</i> | <i>Last Name</i> | <i>Office/Title</i> | <i>Phone Number</i> | <i>E-mail</i> |
|----------------------------|-------------------|------------------|--|---------------------|---------------------------|
| <i>Alternate Contact</i> | Bryan | Rhodes | NASA Spectrum Policy and Planning | 216-433-2473 | bryan.a.rhodes@nasa.gov |
| <i>Responsible Officer</i> | Victor | Sparrow | NASA, Director, Spectrum Policy and Planning | 202-358-0681 | victor.d.sparrow@nasa.gov |
| <i>Primary Contact</i> | John | Zuzek | NASA, Spectrum Policy and Planning | 216-433-3469 | jezuzek@nasa.gov |
| <i>Alternate Contact</i> | Bradford | Kaufman | NASA, SCaN/Spectrum Policy and Planning | 202-358-0767 | bkaufman@nasa.gov |

Releasable

NASA\NASA 1755-1780 (Rev. 2) (Sufficient) - Freq-Geo Transition Timeline

| Serial Number | System Name | Center Lower Frequency (MHz) | Upper Frequency (MHz) | Emission Bandwidth (MHz) | Receiver Bandwidth | System Use Type Name | Operation Area | Transmitter State | Transmitter Latitude | Transmitter Longitude |
|---------------|------------------------|------------------------------|-----------------------|--------------------------|--------------------|----------------------|----------------|-------------------|----------------------|-----------------------|
| NASA940130 | LaRC Research Aircraft | 1780.5 | | 25 | 29.7 | Telemetry | NC, VA, MD, DE | VA | 370507N | 0762244W |
| NASA940130 | LaRC Research Aircraft | 1780.5 | | 25 | 29.7 | Telemetry | NC, VA, MD, DE | VA | 370507N | 0762244W |
| NASA940130 | LaRC Research Aircraft | 1780.5 | | 25 | 29.7 | Telemetry | NC, VA, MD, DE | VA | 370507N | 0762244W |
| NASA940130 | LaRC Research Aircraft | 1780.5 | | 25 | 29.7 | Telemetry | NC, VA, MD, DE | VA | 370507N | 0762244W |
| NASA940130 | LaRC Research Aircraft | 1780.5 | | 25 | 29.7 | Telemetry | NC, VA, MD, DE | VA | 370507N | 0762244W |
| NASA940130 | LaRC Research Aircraft | 1780.5 | | 25 | 29.7 | Telemetry | NC, VA, MD, DE | VA | 370507N | 0762244W |
| NASA940130 | LaRC Research Aircraft | 1780.5 | | 25 | 29.7 | Telemetry | NC, VA, MD, DE | VA | 370507N | 0762244W |
| NASA940130 | LaRC Research Aircraft | 1780.5 | | 25 | 29.7 | Telemetry | NC, VA, MD, DE | VA | 370507N | 0762244W |
| NASA940130 | LaRC Research Aircraft | 1780.5 | | 25 | 29.7 | Telemetry | NC, VA, MD, DE | VA | 370507N | 0762244W |
| NASA940130 | LaRC Research Aircraft | 1780.5 | | 25 | 29.7 | Telemetry | NC, VA, MD, DE | VA | 370507N | 0762244W |
| NASA940130 | LaRC Research Aircraft | 1780.5 | | 25 | 29.7 | Telemetry | NC, VA, MD, DE | VA | 370507N | 0762244W |
| NASA940130 | LaRC Research Aircraft | 1780.5 | | 25 | 29.7 | Telemetry | NC, VA, MD, DE | VA | 370507N | 0762244W |

NASA\NASA 1755-1780 (Rev. 2) (Sufficient) - Freq-Geo Transition Timeline

| Serial Number | Receiver State | Receiver Latitude | Receiver Longitude | Alternate Frequency Assignment | Geographic Location associated with Timeline | Sharing Type | Indefinite Sharing Timeline (Months after 1/30/15) | Temporary Sharing Timeline (Months after 1/30/15) | Vacate Assignment Timeline (Months after 1/30/15) |
|---------------|----------------|-------------------|--------------------|--------------------------------|--|--------------|--|---|---|
| NASA940130 | AIR | xxxxxxx | xxxxxxx | 4400-4490 | EA42 | None | | | 21 |
| NASA940130 | AIR | xxxxxxx | xxxxxxx | 4400-4490 | EA47 | None | | | 21 |
| NASA940130 | AIR | xxxxxxx | xxxxxxx | 4400-4490 | EA46 | None | | | 21 |
| NASA940130 | AIR | xxxxxxx | xxxxxxx | 4400-4490 | EA45 | None | | | 21 |
| NASA940130 | AIR | xxxxxxx | xxxxxxx | 4400-4490 | EA20 | None | | | 21 |
| NASA940130 | AIR | xxxxxxx | xxxxxxx | 4400-4490 | EA23 | None | | | 21 |
| NASA940130 | AIR | xxxxxxx | xxxxxxx | 4400-4490 | EA40 | None | | | 21 |
| NASA940130 | AIR | xxxxxxx | xxxxxxx | 4400-4490 | EA25 | None | | | 21 |
| NASA940130 | AIR | xxxxxxx | xxxxxxx | 4400-4490 | EA21 | None | | | 21 |
| NASA940130 | AIR | xxxxxxx | xxxxxxx | 4400-4490 | EA41 | None | | | 21 |
| NASA940130 | AIR | xxxxxxx | xxxxxxx | 4400-4490 | EA22 | None | | | 21 |

Releasable

NASA\NASA 1755-1780 (Rev. 2) (Sufficient) - Funds

| System Name | Total Pre-Auction Cost (\$M) | Pre-Auction Transfer Requested (\$M) | Pre-Auction Cost Pre-2012 (\$M) | Equipment Cost (\$M) | Deployment Cost (\$M) | Total Cost (\$M) | Begin Expenditure Timeline (Months) | End Expenditure Timeline (Months) |
|---------------------------------------|------------------------------|--------------------------------------|---------------------------------|----------------------|-----------------------|------------------|-------------------------------------|-----------------------------------|
| HQ Alternate Band Engineering Studies | 0.5470 | 0.0000 | 0.5470 | 0.0000 | 0.0000 | 0.5470 | 1 | 1 |
| LaRC Research Aircraft | 0.0250 | 0.0000 | 0.0000 | 0.8400 | 0.1250 | 0.9900 | 6 | 50 |
| Total | 0.5720 | 0.0000 | 0.5470 | 0.8400 | 0.1250 | 1.5370 | | |

Releasable

NASA\NASA 1755-1780 (Rev. 2) (Sufficient) - Funds

| System Name | Expanded Capability Cost (\$M) | Expanded Capability Description | Expanded Capability Justification |
|---------------------------------------|--------------------------------|---------------------------------|---|
| HQ Alternate Band Engineering Studies | | | Analysis of 2015-2110 MHz and 2200-2290 MHz bands for relocation of federal systems from 1755-1850 MHz. |
| LaRC Research Aircraft | | | Re-engineering of system to different frequency band and purchase of new equipment |
| Total | 0.0000 | | |

Releasable

NASA\NASA 1755-1780 (Rev. 2) (Sufficient) - Interactions

| Interaction Name | Interaction Description |
|------------------|-------------------------|
|------------------|-------------------------|

Releasable

NASA\NASA 1755-1780 (Rev. 2) (Sufficient) - Impact Factors

| Factor Name | Factor Description |
|-------------|--------------------|
|-------------|--------------------|

Releasable

NASA\NASA 1755-1780 (Rev. 2) (Sufficient) - Notes

| Note Name | Note Text |
|------------|---|
| Revision 1 | Updated SRF expenditure duration due to delays in contract for replacement system capability. |
| Revision 2 | Updated SRF expenditure timeline duration due to additional delays in contract implementation and equipment testing schedule for replacement system capability. |

Releasable

NASA\NASA 1755-1780 (Rev. 2) (Sufficient) - Excluded Info

| Table | Row | Column | Agency Marking | Reference |
|-------|-----|--------|-------------------|-----------|
|-------|-----|--------|-------------------|-----------|