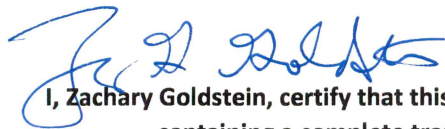


**Department of Commerce (DOC)
National Oceanic and Atmospheric Administration
Transition Plan for the 1695-1710 MHz Band**

Name of Responsible Officer: James L. Mentzer
Office: Office of Radio Frequency Management
Telephone Number: 301-628-5649
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Primary Point of Contact: Carmelo Rivera
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Certification regarding Classified and Sensitive Information:

I, Zachary Goldstein, certify that this transition plan, is cleared for release to the public and contains no classified or sensitive information. A separate Annex containing a complete transition plan including all classified and sensitive data is provided under separate cover via authorized channels.

8/12/2014

DOC Transition Plan for 1695-1710 MHz Band

Tab B: General Information

| | | | | |
|---|---|--|--|--|
| 1 | This Transition Plan includes pre-auction planning costs, as defined in Section O.2 of Annex O: | | | |
| | a. Total pre-auction planning costs: | \$3.6900 | | |
| | b. The subtotal amount, if any, of pre-auction planning costs requested for pre-auction transfer: | \$0.0000 | | |
| | c. The subtotal amount, if any, of pre-auction planning costs incurred after June 28, 2010, but before February 22, 2012: | \$3.6900 | | |
| | d. This organization attests that: | | | |
| | [1] This transition plan provides for sharing and coordination of eligible frequencies with non-federal users, including reasonable accommodation for the use of eligible frequencies by non-federal users during the transition period. | Yes | | |
| | [2] This transition plan provides for non-federal users to be able to use eligible frequencies during the transition period in geographic areas where this organization does not use such frequencies. | Yes | | |
| | [3] During the transition period, this organization will make itself available for negotiation and discussion with non-federal users not later than 30 days after a written request. | Yes | | |
| | [4] During the transition period, this organization will make available to a non-federal user with appropriate security clearances any classified information regarding the relocation process, on a need-to-know basis. | Yes | | |
| | [5] (Only applicable if the amount in 1b above is greater than \$0.00.) Funds transferred before an auction likely allow for timely implementation of relocation or sharing, thereby increasing net expected auction proceeds by an amount not less than the time value of the amount of funds transferred. | Yes | | |
| 2 | There is additional information required to be included in the Transition Plan that is not included in this document because it is classified information, as defined in Section O.7 of Annex O. | No | | |
| 3 | There is additional information required to be included in the Transition Plan that is not included in this document because it is <u>sensitive</u> information, as defined in Section O.7 of Annex O. | No | | |
| 4 | a. Name of Responsible Officer: | James L. Mentzer | | |
| | b. (Optional) Office: | Office of Radio Frequency Management | | |
| | c. (Optional) Telephone Number: | 301-628-5649 | | |
| | d. (Optional) E-mail: | jmentzer@doc.gov | | |
| 5 | Total Transition Plan Cost | \$263.303 | | |

DOC Transition Plan for 1695-1710 MHz Band
 Tab C: Abstract

| Serial Number | Center Freq./ Lower Band Limit (MHz) | Upper Band Limit (MHz) (if appl) | Emission Bandwidth (20 dB) (MHz) | Rx Bandwidth (3 dB) (MHz) | Bureau | System Use | System Name | Authorized Area of Operation | TX State | TX Latitude | TX Longitude | RX State | RX Latitude | RX Longitude | Sharing | Alternate Frequency Assignment | Transition Timeline (Months) |
|---------------|--|--|--|---------------------------------|--------|------------|-----------------------------------|------------------------------|-------------|----------------|--------------|-------------|----------------|--------------|------------|--------------------------------------|------------------------------------|
| C 860054 | 1698 | | 5.34 | 5.34 | NESS | MetSat | WALLOPS ISLAND POES RCVR | Wallops Island, VA | SPC | xxxxxxx | xxxxxxxxxx | VA | 375645N | 0752745W | Indefinite | None | 39 |
| | | | | | | | GILMORE CREEK POES RCVR | Gilmore Creek, AK | | | | AK | 645844N | 1472942W | Indefinite | None | 39 |
| | | | | | | | MONTEREY POES RCVR | Monterey, CA | | | | CA | 363600N | 1215400W | Indefinite | None | 39 |
| | | | | | | | FAIRBANKS POES RCVR | Fairbanks, AK | | | | AK | 644814N | 1475234W | Indefinite | None | 39 |
| | | | | | | | SUITLAND POES RCVR | Suitland, MD | | | | MD | 385107N | 0765612W | Indefinite | None | 39 |
| | | | | | | | STENNIS SPACE CENTER POES RCVR | Stennis Space Center, MS | | | | MS | 302359N | 0893559W | Indefinite | None | 39 |
| | | | | | | | MIAMI AOML POES RCVR | Miami, FL | | | | FL | 254405N | 0800945W | Indefinite | None | 39 |
| | | | | | | | BARROW POES RCVR | Barrow, AK | | | | AK | 711922N | 1563641W | Indefinite | None | 39 |
| | | | | | | | FORD ISLAND POES RCVR | Ford Island, HI | | | | HI | 212212N | 1575744W | Indefinite | None | 39 |
| | | | | | | | KANSAS CITY POES RCVR | Kansas City, MO | | | | MO | 391640N | 0943944W | Indefinite | None | 39 |
| | | | | | | | MIAMI NHC POES RCVR | Miami, FL | | | | FL | 254416N | 0802301W | Indefinite | None | 39 |
| C 860055 | 1702.5 | | 5.34 | 5.34 | NESS | MetSat | WALLOPS ISLAND POES RCVR | Wallops Island, VA | SPC | xxxxxxx | xxxxxxxxxx | VA | 375645N | 0752745W | Indefinite | None | 39 |
| | | | | | | | FAIRBANKS POES RCVR | Fairbanks, AK | | | | AK | 644814N | 1475234W | Indefinite | None | 39 |
| | | | | | | | SUITLAND POES RCVR | Suitland, MD | | | | MD | 385107N | 0765612W | Indefinite | None | 39 |
| | | | | | | | MIAMI AOML POES RCVR | Miami, FL | | | | FL | 254405N | 0800945W | Indefinite | None | 39 |
| | | | | | | | GILMORE CREEK POES RCVR | Gilmore Creek, AK | | | | AK | 645844N | 1472942W | Indefinite | None | 39 |
| | | | | | | | BARROW POES RCVR | Barrow, AK | | | | AK | 711922N | 1563641W | Indefinite | None | 39 |
| | | | | | | | MONTEREY POES RCVR | Monterey, CA | | | | CA | 363600N | 1215400W | Indefinite | None | 39 |
| | | | | | | | STENNIS SPACE CENTER POES RCVR | Stennis Space Center, MS | | | | MS | 302359N | 0893559W | Indefinite | None | 39 |
| | | | | | | | FORD ISLAND POES RCVR | Ford Island, HI | | | | HI | 212212N | 1575744W | Indefinite | None | 39 |
| | | | | | | | KANSAS CITY POES RCVR | Kansas City, MO | | | | MO | 391640N | 0943944W | Indefinite | None | 39 |
| | | | | | | | MIAMI NHC POES RCVR | Miami, FL | | | | FL | 254416N | 0802301W | Indefinite | None | 39 |
| C 860056 | 1707 | | 5.34 | 5.34 | NESS | MetSat | WALLOPS ISLAND POES RCVR | Wallops Island, VA | SPC | xxxxxxx | xxxxxxxxxx | VA | 375645N | 0752745W | Indefinite | None | 39 |
| | | | | | | | FAIRBANKS POES RCVR | Fairbanks, AK | | | | AK | 644814N | 1475234W | Indefinite | None | 39 |
| | | | | | | | SUITLAND POES RCVR | Suitland, MD | | | | MD | 385107N | 0765612W | Indefinite | None | 39 |
| | | | | | | | MIAMI AOML POES RCVR | Miami, FL | | | | FL | 254405N | 0800945W | Indefinite | None | 39 |
| | | | | | | | GILMORE CREEK POES RCVR | Gilmore Creek, AK | | | | AK | 645844N | 1472942W | Indefinite | None | 39 |
| | | | | | | | BARROW POES RCVR | Barrow, AK | | | | AK | 711922N | 1563641W | Indefinite | None | 39 |
| | | | | | | | MONTEREY POES RCVR | Monterey, CA | | | | CA | 363600N | 1215400W | Indefinite | None | 39 |
| | | | | | | | STENNIS SPACE CENTER POES RCVR | Stennis Space Center, MS | | | | MS | 302359N | 0893559W | Indefinite | None | 39 |
| | | | | | | | FORD ISLAND POES RCVR | Ford Island, HI | | | | HI | 212212N | 1575744W | Indefinite | None | 39 |
| | | | | | | | KANSAS CITY POES RCVR | Kansas City, MO | | | | MO | 391640N | 0943944W | Indefinite | None | 39 |
| | | | | | | | MIAMI NHC POES RCVR | Miami, FL | | | | FL | 254416N | 0802301W | Indefinite | None | 39 |

DOC Transition Plan for 1695-1710 MHz Band

Tab C: Abstract

| Serial Number | Center Freq./ Lower Band Limit (MHz) | Upper Band Limit (MHz) (if appl) | Emission Bandwidth (20 dB) (MHz) | Rx Bandwidth (3 dB) (MHz) | Bureau | System Use | System Name | Authorized Area of Operation | TX State | TX Latitude | TX Longitude | RX State | RX Latitude | RX Longitude | Sharing | Alternate Frequency Assignment | Transition Timeline (Months) |
|---------------|--|--|--|---------------------------------|--------|------------|-----------------------------|------------------------------|-------------|----------------|--------------|-------------|----------------|--------------|------------|--------------------------------------|------------------------------------|
| C 050523 | 1694.8 | | 0.4 | 0.4 | NESS | MetSat | WALLOPS ISLAND GOES RCVR | Wallops Island, VA | SPC | XXXXXXX | 75W | VA | 375645N | 0752745W | Indefinite | None | 39 |
| | | | | | | | GREENBELT GOES RCVR | Greenbelt, MD | | | | MD | 385955N | 0765034W | Indefinite | None | 39 |
| C 050543 | 1694.8 | | 0.4 | 0.4 | NESS | MetSat | WALLOPS ISLAND GOES RCVR | Wallops Island, VA | SPC | XXXXXXX | 135W | VA | 375645N | 0752745W | Indefinite | None | 39 |
| | | | | | | | GREENBELT GOES RCVR | Greenbelt, MD | | | | MD | 385955N | 0765034W | Indefinite | None | 39 |
| C 940367 | 1694.8 | | 0.4 | 0.4 | NESS | MetSat | WALLOPS ISLAND GOES RCVR | Wallops Island, VA | SPC | XXXXXXX | 75W | VA | 375645N | 0752745W | Indefinite | None | 39 |
| C 940368 | 1694.8 | | 0.4 | 0.4 | NESS | MetSat | WALLOPS ISLAND GOES RCVR | Wallops Island, VA | SPC | XXXXXXX | 135W | VA | 375645N | 0752745W | Indefinite | None | 39 |
| C 970416 | 1694.8 | | 0.4 | 0.4 | NESS | MetSat | WALLOPS ISLAND GOES RCVR | Wallops Island, VA | SPC | XXXXXXX | 105W | VA | 375645N | 0752745W | Indefinite | None | 39 |

DOC Transition Plan for 1695-1710 MHz Band
 Tab C.1 Radiosondes

| Serial Number | Center Freq./ Lower Band Limit (MHz) | Upper Band Limit (MHz) (if appl) | Emission Bandwidth (20 dB) (MHz) | Rx Bandwidth (3 dB) (MHz) | Bureau | System Use | System Name | Authorized Area of Operation | TX State | Service Area (TX) | TX Latitude | TX Longitude | RX State | Service Area (RX) | RX Latitude | RX Longitude | Sharing | Alternate Frequency Assignment | Transition Timeline (Months) |
|---------------|--|--|--|---------------------------------|--------|------------|-------------|---------------------------------|-------------|----------------------|----------------|--------------|-------------|-------------------|----------------|--------------|---------|--------------------------------------|------------------------------------|
| C 112001 | 1676 | | 1 | 1 | NWS | | Radiosondes | USP | USP | USP | | | | USP | | | | TBD | |
| C 112002 | 1678 | | 1 | 1 | NWS | | Radiosondes | USP | USP | USP | | | | USP | | | | TBD | |
| C 112003 | 1680 | | 1 | 1 | NWS | | Radiosondes | USP | USP | USP | | | | USP | | | | TBD | |
| C 112004 | 1682 | | 1 | 1 | NWS | | Radiosondes | USP | USP | USP | | | | USP | | | | TBD | |

DOC Transition Plan for 1695-1710 MHz Band
 Tab C.2 DOC GOES-R Sites

| Serial Number | Center Freq./ Lower Band Limit (MHz) | Upper Band Limit (MHz) (if appl) | Emission Bandwidth (20 dB) (MHz) | Rx Bandwidth (3 dB) (MHz) | Bureau | System Use | System Name | Authorized Area of Operation | TX State | TX Latitude | TX Longitude | RX State | RX Latitude | RX Longitude | Sharing | Alternate Frequency Assignment | Transition Timeline (Months) |
|-----------------|--|--|--|---------------------------------|--------|------------|-------------|---------------------------------|-------------|----------------|--------------|-------------|----------------|--------------|------------|--------------------------------------|---------------------------------|
| C140534/C140537 | 1680.2 | | 0.4 | 0.4 | NESS | | GOES-R4 | SPCE | GSO | | 137W/75W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C140534/C140537 | 1680.2 | | 0.4 | 0.4 | NESS | | GOES-R4 | SPCE | GSO | | 137W/75W | MD | 385107N | 0765612W | Indefinite | None | Indefinite |
| C140534/C140537 | 1680.2 | | 0.4 | 0.4 | NESS | | GOES-R4 | SPCE | GSO | | 137W/75W | FL | 254516N | 0802301W | Indefinite | None | Indefinite |
| C140534/C140537 | 1680.2 | | 0.4 | 0.4 | NESS | | GOES-R4 | SPCE | GSO | | 137W/75W | CO | 395926N | 1051551W | Indefinite | None | Indefinite |
| C140534/C140537 | 1680.2 | | 0.4 | 0.4 | NESS | | GOES-R4 | SPCE | GSO | | 137W/75W | WV | 392602N | 0801133W | Indefinite | None | Indefinite |
| C140534/C140537 | 1680.2 | | 0.4 | 0.4 | NESS | | GOES-R4 | SPCE | GSO | | 137W/75W | OK | 351052N | 0972621W | Indefinite | None | Indefinite |
| C140539/C140542 | 1686.6 | | 12 | 12 | NESS | | GOES-R3 | SPCE | GSO | | 137W/75W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C140539/C140542 | 1686.6 | | 12 | 12 | NESS | | GOES-R3 | SPCE | GSO | | 137W/75W | MD | 385107N | 0765612W | Indefinite | None | Indefinite |
| C140539/C140542 | 1686.6 | | 12 | 12 | NESS | | GOES-R3 | SPCE | GSO | | 137W/75W | FL | 254516N | 0802301W | Indefinite | None | Indefinite |
| C140539/C140542 | 1686.6 | | 12 | 12 | NESS | | GOES-R3 | SPCE | GSO | | 137W/75W | CO | 395926N | 1051551W | Indefinite | None | Indefinite |
| C140539/C140542 | 1686.6 | | 12 | 12 | NESS | | GOES-R3 | SPCE | GSO | | 137W/75W | WV | 392602N | 0801133W | Indefinite | None | Indefinite |
| C140539/C140542 | 1686.6 | | 12 | 12 | NESS | | GOES-R3 | SPCE | GSO | | 137W/75W | OK | 351052N | 0972621W | Indefinite | None | Indefinite |
| C140544/C140547 | 1693 | | 0.016 | 0.08 | NESS | | GOES-R2 | SPCE | GSO | | 137W/75W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C140544/C140547 | 1693 | | 0.016 | 0.08 | NESS | | GOES-R2 | SPCE | GSO | | 137W/75W | MD | 385955N | 0765034W | Indefinite | None | Indefinite |
| C140544/C140547 | 1693 | | 0.016 | 0.08 | NESS | | GOES-R2 | SPCE | GSO | | 137W/75W | WV | 392602N | 0801133W | Indefinite | None | Indefinite |
| C140549/C140552 | 1694.1 | | 0.096 | 1.2 | NESS | | GOES-R1 | SPCE | GSO | | 137W/75W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C140549/C140552 | 1694.1 | | 0.096 | 1.2 | NESS | | GOES-R1 | SPCE | GSO | | 137W/75W | MD | 385107N | 0765612W | Indefinite | None | Indefinite |
| C140549/C140552 | 1694.1 | | 0.096 | 1.2 | NESS | | GOES-R1 | SPCE | GSO | | 137W/75W | FL | 254516N | 0802301W | Indefinite | None | Indefinite |

DOC Transition Plan for 1695-1710 MHz Band

Tab C.2 DOC GOES-R Sites

| Serial Number | Center Freq./ Lower Band Limit (MHz) | Upper Band Limit (MHz) (if appl) | Emission Bandwidth (20 dB) (MHz) | Rx Bandwidth (3 dB) (MHz) | Bureau | System Use | System Name | Authorized Area of Operation | TX State | TX Latitude | TX Longitude | RX State | RX Latitude | RX Longitude | Sharing | Alternate Frequency Assignment | Transition Timeline (Months) |
|-----------------|--------------------------------------|----------------------------------|----------------------------------|---------------------------|--------|------------|-------------|------------------------------|----------|-------------|--------------|----------|-------------|--------------|------------|--------------------------------|------------------------------|
| C140549/C140552 | 1694.1 | | 0.096 | 1.2 | NESS | | GOES-R1 | SPCE | GSO | | 137W/75W | CO | 395926N | 1051551W | Indefinite | None | Indefinite |
| C140549/C140552 | 1694.1 | | 0.096 | 1.2 | NESS | | GOES-R1 | SPCE | GSO | | 137W/75W | WV | 392602N | 0801133W | Indefinite | None | Indefinite |
| C140549/C140552 | 1694.1 | | 0.096 | 1.2 | NESS | | GOES-R1 | SPCE | GSO | | 137W/75W | OK | 351052N | 0972621W | Indefinite | None | Indefinite |
| C140549/C140552 | 1694.1 | | 0.586 | 1.2 | NESS | | GOES-R1 | SPCE | GSO | | 137W/75W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C140549/C140552 | 1694.1 | | 0.586 | 1.2 | NESS | | GOES-R1 | SPCE | GSO | | 137W/75W | MD | 385107N | 0765612W | Indefinite | None | Indefinite |
| C140549/C140552 | 1694.1 | | 0.586 | 1.2 | NESS | | GOES-R1 | SPCE | GSO | | 137W/75W | FL | 254516N | 0802301W | Indefinite | None | Indefinite |
| C140549/C140552 | 1694.1 | | 0.586 | 1.2 | NESS | | GOES-R1 | SPCE | GSO | | 137W/75W | CO | 395926N | 1051551W | Indefinite | None | Indefinite |
| C140549/C140552 | 1694.1 | | 0.586 | 1.2 | NESS | | GOES-R1 | SPCE | GSO | | 137W/75W | WV | 392602N | 0801133W | Indefinite | None | Indefinite |
| C140549/C140552 | 1694.1 | | 0.586 | 1.2 | NESS | | GOES-R1 | SPCE | GSO | | 137W/75W | OK | 351052N | 0972621W | Indefinite | None | Indefinite |

DOC Transition Plan for 1695-1710 MHz Band
 Tab C.3 DOC GOES M-P Sites

| Serial Number | Center Freq/ Lower Band Limit (MHz) | Upper Band Limit (MHz) (if appl) | Emission Bandwidth (20 dB) (MHz) | Rx Bandwidth (3 dB) (MHz) | Bureau | System Use | System Name | Authorized Area of Operation | TX State | TX Latitude | TX Longitude | RX State | RX Latitude | RX Longitude | Sharing | Alternate Frequency Assignment | Transition Timeline (Months) |
|---------------|---|--|--|---------------------------------|--------|------------|-------------|---------------------------------|-------------|----------------|--------------|-------------|----------------|--------------|------------|--------------------------------------|------------------------------------|
| C 050517 | 1681.478 | | 0.4 | 0.4 | NESS | | GOES-N7 | SPCE | GSO | | 75W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C 050517 | 1681.478 | | 0.4 | 0.4 | NESS | | GOES-N7 | SPCE | GSO | | 75W | MD | 385955N | 0765034W | Indefinite | None | Indefinite |
| C 050517 | 1681.478 | | 0.4 | 0.4 | NESS | | GOES-N7 | SPCE | GSO | | 75W | CO | 395926N | 1051551W | Indefinite | None | Indefinite |
| C 050537 | 1681.478 | | 0.4 | 0.4 | NESS | | GOES-N7 | SPCE | GSO | | 135W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C 050537 | 1681.478 | | 0.4 | 0.4 | NESS | | GOES-N7 | SPCE | GSO | | 135W | MD | 385955N | 0765034W | Indefinite | None | Indefinite |
| C 050537 | 1681.478 | | 0.4 | 0.4 | NESS | | GOES-N7 | SPCE | GSO | | 135W | CO | 395926N | 1051551W | Indefinite | None | Indefinite |
| C 050518 | 1685.7 | | 4.22 | 4.22 | NESS | | GOES-N6 | SPCE | GSO | | 75W | USP | | 0.0000 | Indefinite | None | Indefinite |
| C 050538 | 1685.7 | | 4.22 | 4.22 | NESS | | GOES-N6 | SPCE | GSO | | 135W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C 940357 | 1685.7 | | 4.22 | 4.22 | NESS | | GOES-N6 | SPCE | GSO | | 75W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C 940358 | 1685.7 | | 4.22 | 4.22 | NESS | | GOES-N6 | SPCE | GSO | | 135W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C 970411 | 1685.7 | | 4.22 | 4.22 | NESS | | GOES-N6 | SPCE | GSO | | 105W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C 050519 | 1691 | | 0.586 | 0.586 | NESS | | GOES-N5 | SPCE | GSO | | 75W | USP | | 0.0000 | Indefinite | None | Indefinite |
| C 050539 | 1691 | | 0.586 | 0.586 | NESS | | GOES-N5 | SPCE | GSO | | 135W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C 050539 | 1691 | | 0.586 | 0.586 | NESS | | GOES-N5 | SPCE | GSO | | 135W | MD | 385107N | 0765612W | Indefinite | None | Indefinite |
| C 050539 | 1691 | | 0.586 | 0.586 | NESS | | GOES-N5 | SPCE | GSO | | 135W | MD | 385955N | 0765034W | Indefinite | None | Indefinite |

DOC Transition Plan for 1695-1710 MHz Band
 Tab C.3 DOC GOES M-P Sites

| Serial Number | Center Freq/ Lower Band Limit (MHz) | Upper Band Limit (MHz) (if appl) | Emission Bandwidth (20 dB) (MHz) | Rx Bandwidth (3 dB) (MHz) | Bureau | System Use | System Name | Authorized Area of Operation | TX State | TX Latitude | TX Longitude | RX State | RX Latitude | RX Longitude | Sharing | Alternate Frequency Assignment | Transition Timeline (Months) |
|---------------|---|--|--|---------------------------------|--------|------------|-------------|---------------------------------|-------------|----------------|--------------|-------------|----------------|--------------|------------|--------------------------------------|------------------------------------|
| C 050520 | 1692.7 | | 0.05 | 0.05 | NESS | | GOES-N4 | SPCE | GSO | | 75W | USP | | 0.0000 | Indefinite | None | Indefinite |
| C 050540 | 1692.7 | | 0.05 | 0.05 | NESS | | GOES-N4 | SPCE | GSO | | 135W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C 050521 | 1694 | | 0.016 | 0.016 | NESS | | GOES-N3 | SPCE | GSO | | 75W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C 050521 | 1694 | | 0.016 | 0.016 | NESS | | GOES-N3 | SPCE | GSO | | 75W | MD | 385955N | 0765034W | Indefinite | None | Indefinite |
| C 050541 | 1694 | | 0.016 | 0.016 | NESS | | GOES-N3 | SPCE | GSO | | 135W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C 740354 | 1694 | | 0.02 | 0.02 | NESS | | GOES-N3 | SPCE | GSO | | 75W | CO | 400750N | 1051422W | Indefinite | None | Indefinite |
| C 740355 | 1694 | | 0.02 | 0.02 | NESS | | GOES-N3 | SPCE | GSO | | 135W | CO | 400750N | 1051422W | Indefinite | None | Indefinite |
| C 940361 | 1694 | | 0.004 | 0.004 | NESS | | GOES-N3 | SPCE | GSO | | 75W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C 940362 | 1694 | | 0.004 | 0.004 | NESS | | GOES-N3 | SPCE | GSO | | 135W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C 970413 | 1694 | | 0.004 | 0.004 | NESS | | GOES-N3 | SPCE | GSO | | 105W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C 050522 | 1694.5 | | 0.4 | 0.4 | NESS | | GOES-N2 | SPCE | GSO | | 75W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C 050522 | 1694.5 | | 0.4 | 0.4 | NESS | | GOES-N2 | SPCE | GSO | | 75W | MD | 385955N | 0765034W | Indefinite | None | Indefinite |
| C 050542 | 1694.5 | | 0.4 | 0.4 | NESS | | GOES-N2 | SPCE | GSO | | 135W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C 050542 | 1694.5 | | 0.4 | 0.4 | NESS | | GOES-N2 | SPCE | GSO | | 135W | MD | 385955N | 0765034W | Indefinite | None | Indefinite |
| C 940365 | 1694.5 | | 0.4 | 0.4 | NESS | | GOES-N2 | SPCE | GSO | | 75W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C 940366 | 1694.5 | | 0.4 | 0.4 | NESS | | GOES-N2 | SPCE | GSO | | 135W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |
| C 970415 | 1694.5 | | 0.4 | 0.4 | NESS | | GOES-N2 | SPCE | GSO | | 105W | VA | 375645N | 0752745W | Indefinite | None | Indefinite |

DOC Transition Plan for 1695-1710 MHz Band

Tab D: Transition Timeline

| Timeline (Months after Auction) | | | | |
|--|---|------------------------------------|-------------------------------------|------------------------------|
| Serial Number | Geographic Location (Service Area) | Begin Temporary Sharing | Begin Indefinite Sharing | Vacate Assignment |
| | AK Elmendorf AFB-Anchorage | | 39 | |
| | AK Barrow | | 39 | |
| | AK Fairbanks | | 39 | |
| | CO Boulder | | 39 | |
| | HI Hickam AFB-Ford Island | | 39 | |
| | WV Fairmont | | 39 | |
| | MD Suitland-Greenbelt | | 39 | |
| | MO Kansas City | | 39 | |
| | FL Miami-Miami (OAML) | | 39 | |
| | FL Miami-Miami (HNC) | | 39 | |
| | CA Monterey | | 39 | |
| | OK Norman | | 39 | |
| | MI Stennis Space Center | | 39 | |
| | MD Suitland-Suitland | | 39 | |
| | VA Wallops Island | | 39 | |
| | GU Barrigada | | 39 | |
| | PR Guaynabo | | 39 | |

DOC Transition Plan for 1695-1710 MHz Band
 Tab E: Plan and Timeline for using Funds (SRF)

| System Name | System ID | Pre-Auction Costs (\$M) | Pre-Auction Transfer Requested (\$M) | Pre-Auction Costs Incurred between 6-28-2010 and 2-22-2012 | Equipment-Related Costs (\$M) | Deployment-Related Costs (\$M) | Total Cost for System (\$M) | Begin Expenditure of Funds | End Expenditure of Funds | Costs Associated with Expanded Capability | Description of Expanded Capability | Explanation/ Justification |
|----------------------------------|-----------|-------------------------|--------------------------------------|--|-------------------------------|--------------------------------|-----------------------------|----------------------------|--------------------------|---|---|---|
| AK Elmendorf AFB-Anchorage | NOAA-1 | | | | \$5.828 | \$5.636 | \$11.464 | | | | | Monitoring Capability |
| AK Barrow | NOAA-2 | | | | \$3.869 | \$3.325 | \$7.194 | | | | | Monitoring Capability |
| AK Fairbanks | NOAA-3 | | | | \$6.532 | \$6.386 | \$12.918 | | | | | Monitoring Capability |
| CO Boulder | NOAA-4 | | | | \$2.448 | \$4.118 | \$6.566 | | | | | Monitoring Capability |
| HI Hickam AFB-Ford Island | NOAA-5 | | | | \$2.626 | \$5.057 | \$7.683 | | | | | Monitoring Capability |
| WV Fairmont | NOAA-6 | | | | \$2.499 | \$3.797 | \$6.296 | | | | | Monitoring Capability |
| MD Greenbelt | NOAA-7 | | | | \$0.876 | \$2.547 | \$3.423 | | | | | Monitoring Capability |
| MO Kansas City | NOAA-8 | | | | \$0.893 | \$2.608 | \$3.501 | | | | | Monitoring Capability |
| FL Miami-Miami (OAML) | NOAA-9 | | | | \$0.816 | \$2.437 | \$3.253 | | | | | Monitoring Capability |
| FL Miami-Miami (HNC) | NOAA-10 | | | | \$0.876 | \$2.510 | \$3.386 | | | | | Monitoring Capability |
| CA Monterey | NOAA-11 | | | | \$0.832 | \$2.688 | \$3.520 | | | | | Monitoring Capability |
| OK Norman | NOAA-12 | | | | \$0.943 | \$2.539 | \$3.482 | | | | | Monitoring Capability |
| MI Stennis Space Center | NOAA-13 | | | | \$1.671 | \$3.196 | \$4.867 | | | | | Monitoring Capability |
| MD Suitland | NOAA-14 | | | | \$3.210 | \$11.846 | \$15.056 | | | | | Monitoring Capability |
| VA Wallops Island | NOAA-15 | | | | \$9.648 | \$10.703 | \$20.351 | | | | | Monitoring Capability |
| PR Guaynabo | NOAA-16 | | | | \$2.372 | \$2.830 | \$5.202 | | | | | Monitoring Capability |
| GU Barrigada | NOAA-17 | | | | \$9.612 | \$5.435 | \$15.047 | | | | | Monitoring Capability |
| Pre-Acquisition/GCs & Fees | NOAA-18 | | | | | \$5.537 | \$5.537 | | | | | Monitoring Capability |
| Hub (NSOF) | NOAA-19 | | | | \$2.447 | \$31.681 | \$34.128 | | | | | Monitoring Capability |
| Monitoring System (Total) | | | | | \$57.998 | \$114.876 | \$172.874 | 2/1/2015 | 5/1/2018 | | | Monitoring Capability |
| GOES-R Redesign | NOAA-20 | \$3.69 | 3.690 | 3.690 | 0.000 | 0.000 | 3.690 | 6/28/2010 | 2/22/2012 | | | Studies and contract modifications required based on redesign to accommodate frequency shift. |
| Radiosonde Relocation | NOAA-21 | \$0.00 | 0.000 | 0.000 | 67.258 | 12.881 | 80.139 | 2/23/2015 | 2/19/2021 | \$80.139 | Provide automation of radiosonde launches | Radiosonde Deconfliction/Relocation -- Radiosondes being relocated to 403 MHz to accommodate GOES spectrum alignment consequential to 1695 band auction. Expanded Capability: Realization of long term savings through realignment in required staffing to support operations |
| Coordination Portal | NOAA-22 | | | | | | \$6.600 | 2/1/2015 | 2/1/2018 | | | The establishment of a Coordination Portal is required for the successful coordination between the AWS Licensee and the DoC/NOAA Spectrum Manager. It will enable the coordination process to be conducted in an orderly manner with electronic records of all transactions/messages between the licensee and the Agency recorded for future reference. |

DOC Transition Plan for 1695-1710 MHz Band
 Tab E.1 GOES-R -- Plan and Timeline for using Funds (SRF)

| System Name | Pre-Auction Costs (\$M) | Pre-Auction Transfer Requested (\$M) | Pre-Auction Costs Incurred between 6-28-2010 and 2-22-2012 | Equipment-Related Costs (\$M) | Deployment-Related Costs (\$M) | Total Cost for System (\$M) | Begin Expenditure of Funds | End Expenditure of Funds | Description | Explanation/ Justification |
|--------------|-------------------------|--------------------------------------|--|-------------------------------|--------------------------------|-----------------------------|----------------------------|--------------------------|---|---|
| GOES-R | \$0.75 | \$0.750 | \$0.750 | | | 0.750 | 6/28/2010 | 2/22/2012 | Ground System Special Study | Study and modifications required based on frequency shift. |
| GOES-R | \$0.550 | \$0.550 | \$0.550 | | | \$0.550 | 6/28/2010 | 22-Feb | Antenna Contract | Study and modifications required based on frequency shift. |
| GOES-R | \$0.600 | \$0.600 | \$0.600 | | | \$0.600 | 6/28/2010 | 2/22/2012 | Core Ground Contract | Contract cost changes based on frequency modifications requested. |
| GOES-R | \$0.510 | \$0.510 | \$0.510 | | | \$0.510 | 6/28/2010 | 2/22/2012 | Spacecraft Contract | Contract cost changes based on frequency modifications requested. |
| GOES-R | \$0.700 | \$0.700 | \$0.700 | | | \$0.700 | 6/28/2010 | 2/22/2012 | Interference Mitigation Study | Program study to determine risk factors associated with proposed use of 1695-1710 MHz band. |
| ALABASTER | \$0.580 | \$0.580 | \$0.580 | | | \$0.580 | 8/1/2010 | 2/22/2012 | NESDIS Contracted Broadband Analysis services | Spectrum analysis services contracted to determine risk and sharing factors required in sharing spectrum with wireless broadband. |
| Total GOES-R | \$3.690 | \$3.690 | \$3.690 | | | \$3.69 | | | | |

DOC Transition Plan for 1695-1710 MHz Band

Tab F: NTIA Interactions

| Interaction required with NTIA to implement this Transition Plan | |
|---|--|
| 1 | Coordination relative to tracking receiver-transmitter pairs where other agencies are involved (to ensure all receiver sites by other agencies are taken into account.) |
| 2 | Engage ITS to setup coordination portal |
| 3 | Faciliate monitoring enforcement should interference above allowable levels occur. |
| 4 | Facilitate the successful relocation of the Radiosondes from 1674.5 MHz - 1679.5 MHz to 401-406 MHz. Geosynchronous satellites spectrum use is to be shifted down by 3.4 MHz to facilitate 1695–1710 MHz band re-purposing and provide more protection from RFI from broadband at 1695 MHz – 1710Mhz |
| 5 | To assist in the development and coordination of future sites |
| 6 | Facilitate coordination with FCC in developing initial coordination agreements and dealing with enforcement issues relative to band sharing arrangements |
| | |

DOC Transition Plan for 1695-1710 MHz Band
Tab G: Identification of Excluded Classified and Sensitive Information

| Serial Number | Description of Classified or Sensitive Information | Reason for Exclusion | Reference |
|---------------|--|----------------------|----------------|
| | None | | Not Applicable |
| | | | |

DOC Transition Plan for 1695-1710 MHz Band
 Tab H: Factors that could Impact Fulfillment of Transition Plan

| | Factor | Impact on Fulfillment of Transition Plan |
|---|--------------------------------|--|
| 1 | Technology/Development | Adequate and proper phasing of funds will be required to enable development of capabilities necessary to allow sharing of spectrum in accordance with legislation. |
| 2 | Alternate Assignments | Channel assignments for radiosonde channels in the 401-406 MHz band are granted and will deconflict frequency reuse between radiosondes and metsats. |
| 3 | Frequency Sharing Coordination | Ability to validate entities' methodologies for sharing. |
| 4 | Regulatory Criteria | Regulatory criteria will provide private sector user incentive to not interfere with Federal stations without jeopardizing NOAA's ability to complete the mission and/or execute its primary mission essential functions. |
| 5 | Incumbent Support | Incumbents will support interference testing to determine feasibility of co-existence and necessary equipment alterations, and they will support the relocation plan and equipment deployment as necessary to address interference issues. |

The following additional information is provided:

Executive Summary: This transition plan identifies all the required actions and costs needed to make the 1695-1710 MHz Band available for auction for shared use with wireless broadband. (1) Pre-auction costs are identified as a result of direction by NTIA and OMB to redesign the GOES-R (including the direct broadcast communications subsystem, ground segment transmitters, receivers, filters and commanding software, and antenna) originally planned for 1697.4 MHz to below 1695 MHz. (2) As a result of the GOES-R redesign, NOAA's radiosondes (balloon-borne instruments for atmospheric measurements) also require changes due to the large number in use. An analysis of options determined the best option is relocating these systems to the 401 - 406 MHz band. (3) In addition to the establishment of protection distances around critical weather satellite receiver locations, DoC plans to install monitoring capabilities at each receiver location to ensure for continuous monitoring of compliance with the interference threshold criteria established and to provide the ability to identify and mitigate any interference experienced. (4) Lastly, DoC supports and is planning on the establishment of a spectrum coordination portal in conjunction with the DoD and DoI to facilitate the successful coordination between the AWS Licensees and federal agencies of sharing arrangements now and into the future. This plan includes costs for a portion (cost-share) of the total cost of this capability. Additional Details are provided below:

National Weather Service (NWS) Radiosonde Program

The following provides rationale for cost recovery for the NWS Radiosonde Program. The NWS Radiosondes primarily provide upper air observations. Approximately 75,000 are released yearly. Generally 2 per day are released from 102 sites in the conterminous U.S., Alaska, the Pacific region and Puerto Rico. Additionally, the NWS supports operations at 10 sites in the Caribbean. Radiosondes currently operate in the 1675.4 MHz – 1679.5 MHz band (Meteorological Aids). Currently, plans are in the works for spectrum used by the geosynchronous satellites to be shifted down by 3.4 MHz to enable re-purposing of 1695–1710 MHz band by providing more protection from RFI from LTE operations at the 1695 – 1710MHz band.

1. If the Radiosondes remain in the 1675.4 MHz – 1679.5 MHz band, development of a new system channel plan to permit minimal risk to operations adjacent to GOES-R band would be required. The optimal solution is to relocate the Radiosondes to 401-406 MHz.

2. Relocating the Radiosondes to 401 - 406 MHz band would facilitate a shift by the Geosynchronous Satellites to 1679.6–1695 MHz:

The costs associated with relocating the Radiosondes to 401 - 406 MHz band is identified in Tab E of the Transition Plan.

1. Deployment related costs - \$12.881M
2. Deployment (401 - 406 MHz) & Disposal (Legacy System) - \$67.258M
3. Total cost of Radiosonde Relocation to 403 MHz - \$80.139M

Table 1 is a breakdown of the Radiosondes costs.

Breakout of Radiosonde System Replacement Costs

| Category | Cost Item | Unit Cost | Qty | Costs |
|-------------------------|---|-----------|--------|---------------------|
| Equipment Costs | Autosonde Equipment | \$620,000 | 96 | \$59,520,000 |
| | Spares | \$62,000 | 96 | \$5,952,000 |
| | Acquisition Costs (3%) | \$18,600 | 96 | \$1,785,600 |
| | SubTotal | | | \$67,257,600 |
| Deployment Costs | Site Preparation | \$15,000 | 96 | \$1,440,000 |
| | Delivery/Installation | \$10,000 | 96 | \$960,000 |
| | Engineering/Technical Support (labor hrs) | \$100 | 37,000 | \$3,700,000 |
| | Travel (96 sites X 3 people/visits) | \$3,000 | 288 | \$864,000 |
| | Qualification Radiosonde Units | \$230 | 600 | \$138,000 |
| | Qualification Equipment Shipping | \$500 | 6 | \$3,000 |
| | Qualification Support Travel | \$3,000 | 18 | \$54,000 |
| | Legacy System Disposal | \$5,000 | 96 | \$480,000 |
| | Agency M&A/Overhead (7%) | | | \$5,242,762 |
| | Subtotal | | | \$12,881,762 |
| Grand Total | | | | \$80,139,362 |

Notes:
 - 96 sites is 92 US&P Sites, plus NWSTC, NRC, and Sterling (2)
 - Caribbean are not U.S. RF Assignments and already planned for conversion, so not funded
 - Engineering and Technical support are contract labor for two years and three years, respectively

Table 1 - Radiosondes Costs

Spectrum Monitoring Capability at DOC RX Sites

PROPOSED INTERFERENCE MITIGATION OBJECTIVES

1. The carriers and NOAA must be able to mitigate interference to enable operation on TBD sub-bands of 1695-1710 MHz, at some TBD frequency, spatial and temporal separations, in otherwise simultaneous operations, as can be stipulated in a legal sharing agreement.
2. NOAA monitors carrier compliance with agreed-upon Interference Protection Criteria (IPC) - related threshold interference levels.
3. NOAA specifies how and when interference levels are measured and/or imputed or computed.
4. NOAA specifies how and when the carriers are notified of their non-compliance with the IPCs.
5. NOAA provides carriers with IPCs to guide control of carrier operating parameters to minimize harmful interference to incumbent NOAA operation.
6. NOAA's specification of IPC must protect NOAA downlink requirements (e.g., link quality measures –e.g., BER and/or signal to noise + interference ratios)
7. Agreements specify how the carriers would respond to NOAA notices (e.g., by directing the UE's to lower their EIRPs, particularly for those close to the protected earth station).
8. Agreements specify the types of interference signals to be detected, measured and identified, means of detection and measurement, discriminants used, and the parties responsible.
9. Agreements specify how quickly carriers must respond to NOAA notice of non-compliance.
10. Agreements incorporate legal sanctions against carriers for systematic non-compliances.

DoD and DoI sites will have to incur the cost for purchasing the required hardware and software and installation, training and sustainment costs.

Cost of the monitoring capability includes all system engineering, design, development, deployment/installation and maintenance and operations for 10 years.

- Total cost of monitoring capability (Design, Development & Implementation): \$180.1M

Table 2 is a list of the potentially impacted DoC sites and the cost of design, development and implementation at each location.

| | | |
|--|------------------------------------|--|
| AK Elmendorf AFB-Anchorage - \$11.464M | FL Miami-Miami (OAML) - \$3.253M | MO Kansas City - \$3.501M |
| AK Barrow - \$7.194M | FL Miami-Miami (HNC) - \$3.386M | GU Barrigada - \$15.047M |
| AK Fairbanks - \$12.918 | CA Monterey - \$3.520M | PR Guaynabo - \$5.202M (DOC/DOI Site) |
| CO Boulder - \$6.566M | OK Norman - \$3.482M | Hub (NSOF) - \$34.128M |
| HI Hickam AFB-Ford Island - \$7.683M | MI Stennis Space Center - \$4.867M | |
| WV Fairmont - \$6.296M | MD Suitland-Suitland - \$15.056M | |
| MD Greenbelt - \$3.423M | VA Wallops Island - \$20.351M | |

Table 2 - DoC/NOAA Sites that require a monitoring capability

The total cost for the Monitoring capability/system is estimated to be \$172.872M. This includes design, development, testing, test beds and integration and 3 years of O&M costs after the system is operational. (See below for cost summary.)

Summary of Costs for Development and 3 Years of O&M

| HI | FY\$12K WBS Description | Pre-Acq | Dev Yr 1 | Dev Yr 2 | Dev Yr 3 | O&M | | |
|------|-----------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | | Sep14-Mar15 | Apr 15-Sep15 | FY16 | FY17 | FY18 | FY19 | FY20 |
| 0.0 | Pre-Acq / Acq | \$ 5,175 | | | | | | |
| 1.0 | Project Mgmt | | \$ 5,077 | \$ 10,154 | \$ 10,154 | | | |
| 2.0 | System Design and Dev | | \$ 2,200 | \$ 4,400 | \$ 4,400 | | | |
| 3.0 | COTS HW - Hub | | \$ 170 | | | \$ 9 | \$ 9 | \$ 9 |
| 4.0 | COTS HW - Field | | \$ 14,678 | | | \$ 704 | \$ 704 | \$ 704 |
| 5.0 | Comm Infrast - Hub | | | \$ 68 | \$ 50 | \$ 50 | \$ 50 | \$ 50 |
| 6.0 | Comm Infrast - Field | | | \$ 3,449 | \$ 3,242 | \$ 3,242 | \$ 3,242 | \$ 3,242 |
| 7.0 | SW Engineering | | \$ 3,630 | \$ 7,260 | | | | |
| 8.0 | COST SW | | \$ 10,486 | | | \$ 1,525 | \$ 1,525 | \$ 1,525 |
| 9.0 | Integration - Hub | | | | \$ 400 | | | |
| 10.0 | Integ and Instal - Field | | | \$ 5,957 | \$ 3,421 | | | |
| 11.0 | Facilities | | \$ 18,000 | | | | | |
| 12.0 | O&M Labor | | | | | \$ 5,496 | \$ 5,496 | \$ 5,496 |
| 13.0 | OGCs & Fee | \$ 362 | \$ 10,848 | \$ 6,258 | \$ 4,333 | \$ 1,874 | \$ 1,874 | \$ 1,874 |
| | ANNUAL TOTAL FY12\$K | \$ 5,537 | \$ 65,089 | \$ 37,545 | \$ 26,000 | \$ 12,900 | \$ 12,900 | \$ 12,900 |
| | DEVELOPMENT TOTAL | \$ 134,172 | | | | | | |
| | GRAND TOTAL FY12\$K | \$ 172,872 | | | | | | |

Spectrum Coordination Portal

The establishment of a Spectrum Coordination Portal is to facilitate the successful coordination between the AWS Licensee and the DoC/NOAA Spectrum Manager. It will enable the coordination process to be conducted in an orderly manner with electronic records of all transactions/messages between the licensee and the Agency recorded for future reference.

- The portal will be linked to a tracking database that records all data exchanges between the AWS Licensee and the DoC/NOAA.
- The AWS Portal will be accessible to AWS Licensees via a unique login ID and password.
- The information exchanged within the portal is viewable only by the AWS submitter on an account basis, The Portal technical team, and other approved Government users.

Costs associated with the Coordination Portal include the design, development, hardware, software and maintenance/sustainment support for 10 years, 2/1/15 – 1/31/25.

Total estimated cost - \$6.6M, DoC costs over the life of the project. This estimate is for the DoC contribution to the Portal. The expectation is that the DoD and DoI will contribute to the effort as well.

Coordination Zones

The NTIA CSMAC WG 1 has developed a sharing framework designed to protect incumbent NOAA operations in band from 1695-1710 MHz and adjacent operations of both co-channel polar orbiting satellites and geostationary operations in the adjacent 1675-1695 MHz band. The framework has established Protection Zones around each NOAA site designated for protection from commercial wireless transmitters that may cause interference or loss of critical data. The framework allows for exclusive commercial operations outside the Protection Zones without coordination. For commercial operations within the Protection Zones coordination with the designated site is required in conjunction with protection criteria of Interference Power Spectral Density (IPSD) limits. Listed in Table 3 are all sites requiring protection and their specified Protection Zone radius.

Note: The max protection distances in Table 3 below are based on a 20 dBm power level. If a different power level(s) is authorized, these distances will have to be adjusted accordingly.

Table 3

| Earth Station Name | Owner | Latitude | Longitude | Max Protection distance(km) | EA # |
|------------------------------|---------|----------|-----------|-----------------------------|------|
| Wallops Island, VA | DOC | 375645N | 0752745W | 30 | 11 |
| Fairbanks, AK | DOC | 644814N | 1475234W | 20 | 171 |
| Suitland, MD | DOC | 385107N | 0765613W | 98 | 11 |
| Suitland, MD | DOC | 385107N | 0765613W | 98 | 12 |
| Suitland, MD | DOC | 385107N | 0765613W | 98 | 13 |
| Miami, FL | DOC | 254700N | 0801900W | 51 | 31 |
| Ford Island, Pearl Harbor HI | DOC | 212212N | 1575744W | 28 | 172 |
| Monterey, CA | DOC | 363600N | 1215400W | 76 | 163 |
| Stennis Space Center, MI | DOC | 302359N | 0893559W | 58 | 82 |
| Stennis Space Center, MI | DOC | 302359N | 0893559W | | 83 |
| Barrow, Alaska | DOC | 711922N | 1563641W | 35 | 171 |
| Boulder, Colorado | DOC | 395926N | 1051551W | 2 | 141 |
| Fairmont, West Virginia | DOC | 392602N | 801133W | 4 | 53 |
| Guaynabo, Puerto Rico | DOC/DOI | 182526N | 660650W | 48 | 174 |
| Kansas City, Missouri | DOC | 391640N | 943944W | 40 | 99 |
| Norman, Oklahoma | DOC | 351052N | 972621W | 3 | 125 |
| Greenbelt, MD | DOC | 385955N | 0765034W | 4 | 13 |
| Barrigada, GU | DOC | 132834N | 1444816E | 4 | 173 |
| Anchorage AK | DOC | 610921N | 1495904W | 7 | 171 |

The FCC plans to auction off spectrum in the 1695- 1710 MHz band using 5 MHz blocks that will be aggregated using Economic Areas (EAs) as the area for geographic licensing. In Table 3 is the list of all affected EAs that were touched or intersected by an earth station's protection zone and the priority ranking of each EA as designated by CSMAC WG 2. In Figure A is a map of the United States and territories with all the Economic Areas, Earth Station sites and protection zone contours.

Figure A

