NEVADA DEPARTMENT OF TRANSPORTATION
Addendum 2 to RFQ 350-18-016

Reference is made to the Request for Qualifications (RFQ) to Service Providers for Qualified Dynamic Message Sign Manufacturer Selection and Equipment Qualifications Testing, upon which proposals will be received until 11:00 A.M. PT on August 22, 2019.

Following are the questions received from potential proposers, as well as the responses provided by the Nevada Department of Transportation:

QUESTION 1:
What is meant by FDT shall verify "Message writing and erasing by column scan"?

ANSWER 1:
This is an old requirement for FDT that will not be required at this time.

QUESTION 2:
Where is the NDOT MIB mentioned in the specifications?

ANSWER 2:
Please see attached document (Appendix B – NDOT-MIB).

QUESTION 3:
Please confirm how FDT shall verify "The display of the longest possible message within the specified time requirements" as per NTCIP the longest possible message time is infinite.

ANSWER 3:
Test will initiate command from NDOT Central System Software (KITS) for NTCIP Object, “Display time remaining” as infinite (65535). “Message Display Time Remaining” parameter value 65535 indicates an infinite duration or until the message is blanked or changed with another command.

QUESTION 4:
Regarding installation methods on existing NDOT DMS structures. Per Standard Plans for Road and Bridge Construction 2017. Please confirm per drawing T-36.2.7 spacing between existing vertical supports. Max listed is at 3'6" (42") but no minimum or typical value is given.

ANSWER 4:
The maximum spacing is provided and was used in calculations for an evenly distributed connection. Any spacing 42” or less is up to the manufacturer to determine and the NDOT to approve during contract submittal.

QUESTION 5:
Please confirm per drawing T-36.2.7. if DMS vertical supports on the sign are the full 10' 4" height or do they match the height of the sign (7' 6" in drawing T-36.2.7)

ANSWER 5:
The vertical supports are 10’ 4”. They are structurally dependent on bolting to the top and bottom chord members.

QUESTION 6:
How will NDOT verify that all DMS, Roadside Controllers, and other Electronic have been tested and verified to be in compliance- including the appropriate labeling; and NOT in violation of the Law as specified in the FCC’s “Title 47, CFR Part 15” regulations?

ANSWER 6:
a. Roadside controllers and other electronics typically have labels prior to delivery if they are known to emit radio frequency.
b. The DMS signs do or do not have a possibility to emit radio frequency. Either way, the manufacturers are responsible for getting the label from FCC. NDOT will then trust the label is genuine upon inspection.

QUESTION 7:
Will Bidders be required to submit evidence of FCC Compliance with their Bid or prior to Award?

ANSWER 7:
Yes, qualifying vendors will be required to submit evidence of FCC Compliance.

QUESTION 8:
What actual documentation evidencing FCC Compliance for all DMS and other Electronic devices will you require to be provided, and when?

ANSWER 8:
NDOT believes that vendors requesting to be qualified are in the practice of working with FCC policy where applicable. Each should be able to provide documentation evidencing FCC Compliance for all DMS units. This compliance can be as simple as the standard device labelling.

QUESTION 9:
Which NEMA Font will be used on the color walk-in sign?

ANSWER 9:
Section 2.5 in the specifications addresses fonts, guidance, standards and manuals to be followed.

QUESTION 10:
Will powdercoat/paint be accepted in lieu of anodic coating? Anodic coating is atypical for a DMS application

ANSWER 10:
Aluminum housing shall have an anodic coating as a default requirement. Light gray paint meeting or exceeding Section 623.02.07 of the NDOT Standard Specifications for Road and Bridge Construction may be used upon an NDOT approved case situation.

QUESTION 11:
Does NDOT have a copy of NEMA TS4-2016 for their own reference?

ANSWER 11:
a. The NDOT team referenced the NEMA TS4-2016 throughout this RFQ process. NDOT believes that DMS manufacturers should have a copy of this national guidance while designing and building a DMS sign.
b. Copyright laws do not allow us to share.

QUESTION 12:
Qualification package will likely be too large to email – is dropbox delivery acceptable?

ANSWER 12:
Addendum 1 states that the final RFQ can be placed on an FTP site. The link must be provided to NDOT no later than the deadline stated.

QUESTION 13:
For front access signs, will edge-to-edge display be allowed? MUTCD standards are moving away from borders on front access signs.

ANSWER 13:
NDOT feels that contrast borders are valuable. Edge-to-edge modules will be permitted, if they are a portion of a larger sign.

KRISTINA L. SWALLOW, P.E., DIRECTOR
Nevada Department of Transportation

```
-- Nevada DOT Specific Objects
--
-- Copyright 1999-2002 by the Daktronics, Inc.  All property rights, including,
-- but not limited to, the rights of reproduction, translation and display
-- are reserved under the laws of the United States of America.  You may not
-- copy these material without written permission from Daktronics.  Use of
-- these materials does not give you any rights of ownership or claim of
-- copyright in or to these materials.
--

      NEVADA-MIB DEFINITIONS ::= BEGIN

      IMPORTS

      OBJECT-TYPE
              FROM TMIB
      private
              FROM NEMA_SMI
          Counter
                                FROM RFC1155-SMI;


      MessageIDCode ::= OCTET STRING (SIZE(5))
      -- The MessageIDCode consists of those parameters required to define a
      -- message within a dmsMessageTable.
      -- MsgMemoryType 8 bits       bit 0 to 7
      -- MessageNumber 16 bits      bit 8 to 23
      -- MessageCRC    16 bits      bit 24 to 39

    nevada OBJECT IDENTIFIER ::= {private 35}

    -- Fan Activation
    nvFanActivation    OBJECT-TYPE
    SYNTAX INTEGER {
                                        fansOn(1),
                                        fansOff (2)
                                        }
    ACCESS read-write
    STATUS optional
    DESCRIPTION "This object is used to command all fans on or off or
        retrieve fan on/off status"
    ::= {nevada 1}

    -- Heater Failures
    nvHeaterFailures    OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE(1))
    ACCESS read-only
    STATUS optional
    DESCRIPTION "Bitmap indicating sign housing heater status.  If an
        error is indicated in this object, then the climate control system
        bit in shortErrorStatus shall be set.  Unused bit shall be zero.
        -- a bit set to zero indicates the heater is operating normally
        -- a bit set to one indicates the heater has failed."
    ::= {nevada 2}

    -- Heater Activation
    nvHeaterActivation    OBJECT-TYPE
    SYNTAX INTEGER {
                                        heatersOn(1),
                                        heatersOff (2)
                                        }
    ACCESS read-write
    STATUS optional
```

```
    SYNTAX OCTET STRING (SIZE(1))
    ACCESS read-only
    STATUS optional
    DESCRIPTION "Bitmap indicating sign housing heater status.  If an
        error is indicated in this object, then the climate control sy
stem
        bit in shortErrorStatus shall be set.  Unused bit shall be zer
o.
        -- a bit set to zero indicates the heater is operating normall
y
        -- a bit set to one indicates the heater has failed."
    ::= {nevada 2}

    -- Heater Activation
    nvHeaterActivation    OBJECT-TYPE
    SYNTAX INTEGER {
                                        heatersOn(1),
                                        heatersOff (2)
                                        }
    ACCESS read-write
    STATUS optional
    DESCRIPTION "This object is used to command all heaters on or off
or
        retrieve heater on/off status"
    ::= {nevada 3}

    --Power Status Map
    nvDmsPowerStatusMap   OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE(2))
    ACCESS  read-only
    STATUS  optional
    DESCRIPTION "Bitmap indicating status of a power source.  If any b
it
        is set. then the power error bit in the shortErrorStatus objec
t shall
        be set.  A set bit indicates a failure.  All unused bit shall
be set
        to zero.
        -- bit 0 - Other error: Power supply error not listed below
        -- bit 1 - USP failure
        -- bit 2 - Battery failure
        -- bit 3 - Generator failure
        -- bit 4 - Solar Power failure
        -- bit 5 - AC Line power failure
        -- bit 6 - Not used
        -- bit 7 - auxUnderVoltage
        -- bit 8 - auxOverVoltage
        -- bit 9 - auxUnderCurrent
        -- bit 10 - auxOverCurrent
        -- bit 11 - mainUnderVoltage
        -- bit 12 - mainOverVoltage
```

```
        -- bit 13 - mainUnderCurrent
        -- bit 14 - mainOverCurrent"
    ::= {nevada 4}

END
```