

USA North 811

Positive Response System Requirements

Automated Response via TCP Connection

- Connect to **posres.usanorth811.org (IP address 4.7.9.14)** via TCP/7377
- In the dialog below the ← (left arrow) means it comes from the server and the → (right arrow) means it is sent to the server
- Multiple 'DATA' statements can be sent in a single logon session. However, a reply must be received BEFORE the next one is sent.

Components of the DATA command

DATA Ticket,MemberCode,Respondent,ResponseCode

Components of the DATA command.

(These arguments are separated by commas. Space characters on either side of the comma are discarded)

Ticket The complete ticket number EXCLUDING the revision (W121231234 or X121231234)

MemberCode The member code posting the response

Respondent The person's name or initials of who is entering the response. A minimum of three (3) characters are required. If the person only has two initials, send a space between them to fulfill the 3 character requirement.

ResponseCode The three digit code indicating the response of the locate request. These codes can be found → Response Codes

After the socket is connected, normally a 220 reply will be seen. However, there can also be one of the following which will cause the server to immediately disconnect.

421 Service not available

421 Error: <MachineName> Newtin delivery system too busy

421 Error: <MachineName> Too many connections from same IP Address.

If no valid response is entered within 45 seconds of logging in, or submitting a previous valid response, the connection will be disconnected after receiving; 522 Session expired

Sequence of Transmission:

← 220 Response system ready

→ USER MemberCode

← 331 User name okay, need password

→ PASS password

← 230 User logged in, proceed

OR

← 530 Not logged in

→ DATA (Ticket,MemberCode,Respondent,ResponseCode)

Possible results:

← OK

← 251 Duplicate response (same response code that was already sent)

← 252 Ticket has been cancelled

← 450 Insufficient information

← 451 Invalid ticket

← 452 Ticket has expired

← 453 Invalid member code

← 453 Cannot respond for a contract locator

← 453 Cannot respond for an excluded member

← 454 Member not on ticket

← 454 Member not allowed for current login

← 455 Invalid response code

← 455 Invalid response code for ticket category

← 456 Invalid explanation code

← 457 Respondent name under 3 bytes (use "F L" if no middle initial)

→ QUIT

← 221 Thank you for your response

Replies beginning with 25x indicate the response was received.

Replies beginning with 45x indicates invalid data was sent.

Replies beginning with 5xx indicate an error and should try again later.

A reply code in the 450 to 459 range usually requires corrective action before attempting to resend the information. The single exception is the 451 response for an invalid ticket. Because the tickets are taken on more than one server, there may be latency or a temporary internet connectivity error in transferring the data between the server where the ticket was created and the server where the response is being posted. These responses should be resubmitted after a delay of a few minutes.

Important!

The application should not blindly resend responses that fail to be accepted. Any response that has been repeatedly rejected should be manually checked. Any response that has not been accepted for more than 7 days since it was entered should have its status cleared so that the application no longer tries to submit it.

Positive Response & WebTMS Response Codes as defined by USA North 811

The response codes are maintained by USA North 811 in conjunction with USA South (DigAlert) for continuity within the state of California. These codes are used for members to submit responses to USA North 811's Positive Response servers. WebTMS users will automatically post Positive Responses when they post a response within WebTMS itself.

For Excavators wishing to check responses, please see → [Checking Positive Responses](#). The responses will be displayed with the description not the code.

000	N/A	Reserved for system use only
001	Yes	Clear - No Conflict
002	Yes	Clear - No Conflict but Privately Owned Utility On Property - Contact Private Utility Owner for Locate
003	Yes	Existing Markings Adequate
004	Yes	No Markings Requested
010	Yes	Locate Area Marked
011	Yes	Locate Area Marked But Abandoned Facilities May Be In The Area
012	Yes	Locate Area Marked Up To Private Owned Utility - Contact Private Utility Owner For Locate
013	Yes	Locate Area Marked Up To Private Property
014	No	Partially Marked - More Time is Needed
020	Yes	Bad Address/Incorrect Street/Location Info - Resend Ticket Requested
021	Yes	No Access To Locate Area - Resend Ticket Requested
022	Yes	No Delineation - Resend Ticket Requested
023	Yes	Delineated Area Does Not Match Location Request - Resend Ticket Requested
030	Yes	Contact Facility Owner For Further Info
031	Yes	Requires Stand By At Time Of Excavation - Contact Facility Owner
032	Yes	Visible Or Exposed Facility - Contact Facility Owner If Crossing
033	No	High Priority Line in Area - On Site Meeting Required

034	No	Field Meet Required - Contact Facility Owner to Schedule
040	Yes	Excavator Completed Work Prior To Due Date
041	Yes	Excavator No Show For Meet
042	Yes	Excavator Canceled Request
080	Yes	Extraordinary Circumstances Exist - No Locate Due To Weather/Emergency Conditions
999	N/A	Reserved for system use only