DEFAULT STATUS: [MESSAGE 1]

1. Scan successful: CAPTURE BARCODE FROM SCANNER DEVICE [MESSAGE 2]
   1. Connection to ODTS Succeeded [MESSAGE 3] (FETCH DOSIMETER NUMBER, NAME, EMAIL, SUPERVISOR EMAIL, RETURN DATE, PERIOD CODE)
      1. Dosimeter number NOT NULL [MESSAGE 4]
         * 1. Return date NULL: UPDATE RETURN DATE TO “NOW” [MESSAGE 5]

eMail NOT NULL: Send email [MESSAGE 9]

email NULL: Send email to supervisor [MESSAGE 9]

* + - 1. Return date NOT NULL [MESSAGE 6a, 6b]
    1. Dosimeter number NULL [MESSAGE 7]
  1. Connection to ODTS Failed [MESSAGE 8]

1. Scan not successful [MESSAGE 7]

|  |  |  |  |
| --- | --- | --- | --- |
| **MESSAGE #** | **MESSAGE TEXT (2 X 16 LCD)** | **LED BEHAVIOR** | **MESSAGE DURATION** |
| MESSAGE 1 | READY | GREEN STEADY | CONTINUOUS WHILE IDLE |
| TO SCAN |
| MESSAGE 2 (where #### is BARCODE VALUE) | [#####] | BLUE FLASHING | WHILE WAITING |
| SEARCHING… |
| MESSAGE 3 | CONNECTED… | BLUE FLASHING | WHILE WAITING |
|  |
| MESSAGE 4 | RECORD FOUND… | BLUE FLASHING | WHILE WAITING |
|  |
| MESSAGE 5 | RETURN | GREEN FLASHING | WHILE WAITING |
| SUCCESSFUL |
| MESSAGE 6a | LAST NAME | GREEN FLASHING | 1 SECOND |
| FIRST NAME |
| MESSAGE 6b | RETURNED ON | GREEN FLASHING | 1 SECOND |
| MM/DD/YYYY |
| MESSAGE 7 | UNKNOWN DOSI | YELLOW FLASHING | 1 SECOND THEN Default status |
| PLEASE TRY AGAIN |
| MESSAGE 8 | NETWORK | RED FLASHING | CONTINUOUS UNTIL CONNECTED THEN Default Status |
| FAILURE |
| MESSAGE 9 | CONFIRMATION | GREEN FLASHING | 0.5 seconds then Default Status |
| SENT VIA EMAIL |

**To:** [email address]

**From:** [No-Reply@slac.stanford.edu]

**Subject:** Dosimeter Return Confirmation

**Email Text:** [First Name, Last Name]’s dosimeter [Dosimeter Number] from [Period Code] was returned on [Return Date]. Thank you!