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| <b>Title:</b> Mechanical Turnstile   |
| <b>Objective:</b> Verify device is installed using acceptable standards and practices, communicates properly with the Access Control System (ACS), and provides proper protection of assets and meets or exceeds the contract performance specification.   |
| <b>Applicability:</b> Access control systems. Examples: Perimeter gates, fence lines, remote sites.  |
| <b>Notes:</b> <ol style="list-style-type: none"> <li>1. These procedures assume a single-rotor mechanical turnstile with an entry card reader. Exit lane is the same as entry lane, and occupants are allowed free egress.</li> <li>2. Assumes a single credential required for entry (i.e. card only).</li> <li>3. Perform valid and invalid credential tests for entry.</li> <li>4. The cards to be prepared prior to testing and used for these tests are as follows:<br/> Card 1: Authorized to access all areas.<br/> Card 2: Time zone restricted card. Valid for only normal duty hours.<br/> Card 3: Time zone restricted card. Valid for only non-duty hours.<br/> Card 4: Enrolled user with expired access.<br/> Card 5: Un-programmed card.<br/> Card 6: Card with insufficient access permissions.</li> <li>5. For Valid Credential Tests (Step 2.0), use cards 1 and 2.</li> <li>6. For Invalid Credential Tests (Step 3.0), use cards 3, 4, 5, and 6.</li> <li>7. Real-time voice communications between the workstation operator and the field technician is required.</li> <li>8. Perform these tests with the associated zone in the SECURE state.</li> <li>9. Line Supervision, Power Fail, and Tamper Tests need to be performed in addition to these procedures.</li> </ol> |

| Steps             | Actions   | Expected Results  |
|-------------------|---|---|
| <b><u>1.0</u></b> | <b><u>Mechanical Test</u></b>   |   |
| 1.1               | From the unsecure side, verify that the turnstile rotor assembly is locked. Attempt to enter from the unsecure side without a credential. | Turnstile does not allow access. No alarm received at the workstation.  |
| <b><u>2.0</u></b> | <b><u>Valid Credential Access Test</u></b>  | <b>(It is recommended to repeat this test at least 3 times with no failures to help ensure proper functionality)</b>    |
| 2.1               | Present a valid credential to the reader.   | Transaction logged at workstation. Turnstile mechanical lock releases and allows rotor assembly to turn.                |
| 2.2               | Pass through the turnstile.   | Turnstile rotor assembly rotates to allow one person to pass through the turnstile and reactivates the mechanical lock. |
| <b><u>3.0</u></b> | <b><u>Invalid Credential Access Test</u></b>  | <b>(It is recommended to repeat this test at least 3 times with no failures to help ensure proper functionality)</b>    |
| 3.1               | Present invalid credential to the reader.   | An invalid credential alarm is received at the workstation. Turnstile does not release.                                 |
| 3.2               | Clear the alarm at the workstation.   | The active alarm queue is empty.  |
| 3.3               | Repeat for each of the invalid credentials.   |   |

| Steps      | Actions   | Expected Results   |
|------------|---|--|
| <b>4.0</b> | <b><u>Egress Test</u></b>   | <b>(It is recommended to repeat this test at least 3 times with no failures to help ensure proper functionality)</b> |
| 4.1        | Verify turnstile rotor assembly is locked from the unsecure side.                   | Turnstile does not allow access. No alarm received at the workstation.   |
| 4.2        | From the secure side, attempt to egress through the turnstile to the unsecure side. | Turnstile rotates to allow free egress.  |
| 4.3        | Repeat 4.1 to ensure turnstile rotor assembly lock is active after egress.          | Turnstile does not allow access. No alarm received at the workstation.   |