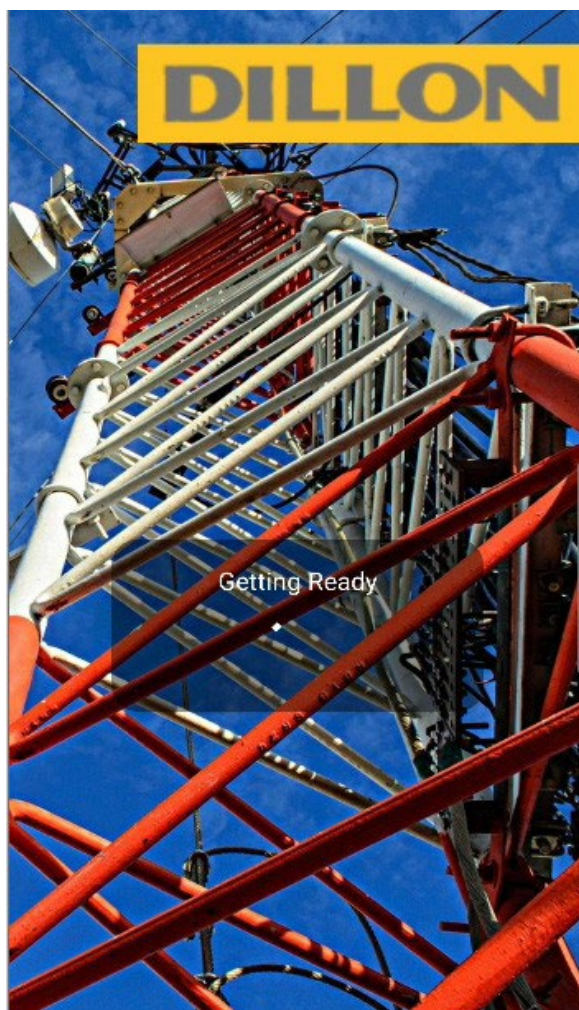


DILLON

Force Measurement Equipment

Dillon Tower Mobile Application



Quick User Guide

*AWT35-100033
Issue AB*

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1. Introduction

The Dillon Tower Mobile Application is a program that will interface with the Quick Check-T via Bluetooth™ and will support Data Collection and Reporting for Guyed Cell Tower maintenance.

The Dillon Tower Mobile Application:

- Calculates Target Tensions based on inputted parameters (Attachment Elevation, Guy Radius, Guy Rise or Drop, Wire Type, Wire Size, and Initial Tension percent), location-based temperature readings and American Society for Testing and Materials (ASTM) Breaking Strength Tables
- Stores Pre-Tension “initial” (Pre Tn) and Post Tensioned (Post Tn) records along with Photos, Date & Time, and GPS coordinates
- Captures Maintenance Log with photos and comments
- Exports Full Site PDF report and Excel (CSV file) of the measurements via email
- Connects to Quick Check-T via Bluetooth™
- Available on both Android (Google Play Store) and iOS (Apple App Store)

1.1. Dillon Tower App Requirements

iOs:

- Minimum iOS version is 12.1
- iPhone 7 and later have full support
- iPhone 5S through 6S Plus and SE will be able to run the app but may have limitations
- iPad Air 1st gen and later are supported

Android:

- Minimum Android version is 6.0 (API Level 23 - Marshmallow)



Camera

- take pictures and videos



Location

- access precise location only in the foreground
- access approximate location (network-based) only in the foreground



Storage

- read the contents of your shared storage
- Modify or delete SD card contents.

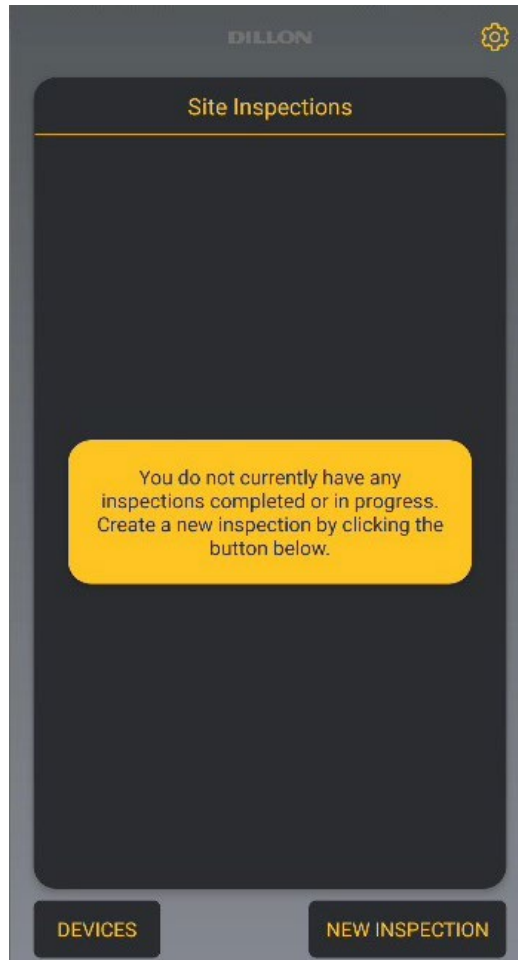
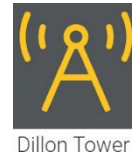


Other

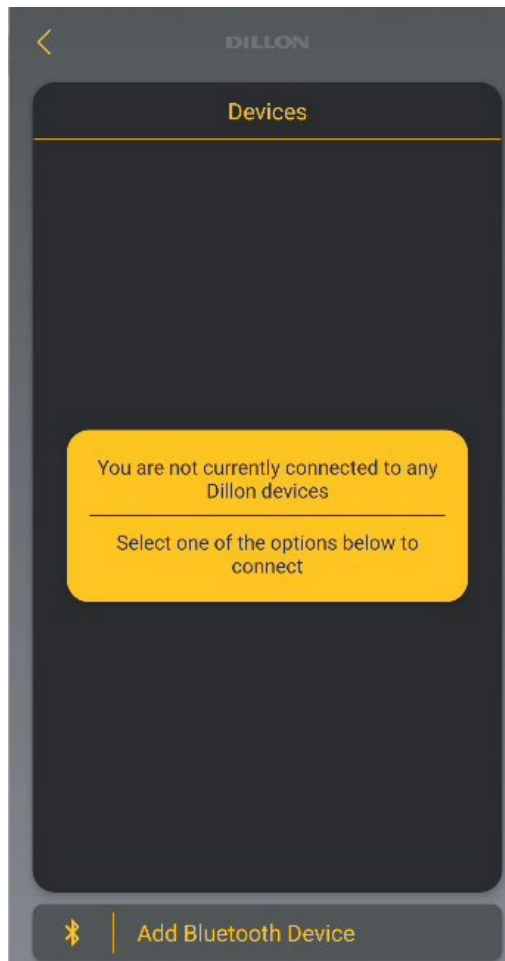
- have full network access
- access Bluetooth settings
- view network connections
- pair with Bluetooth devices

2. Connecting to a Quick Check-T

1. Power on the Quick Check-T.
2. Tap on the Dillon Tower icon on your Android or iOS mobile device:
3. From the **Site Inspections** screen, tap on the **Devices** button.



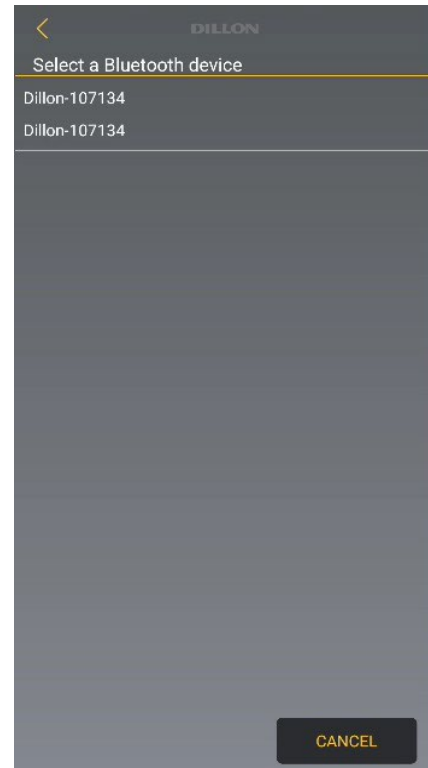
4. From the **Devices** screen, tap on the **Add Bluetooth Device** button if the Quick Check-T is not already listed in the Devices List.



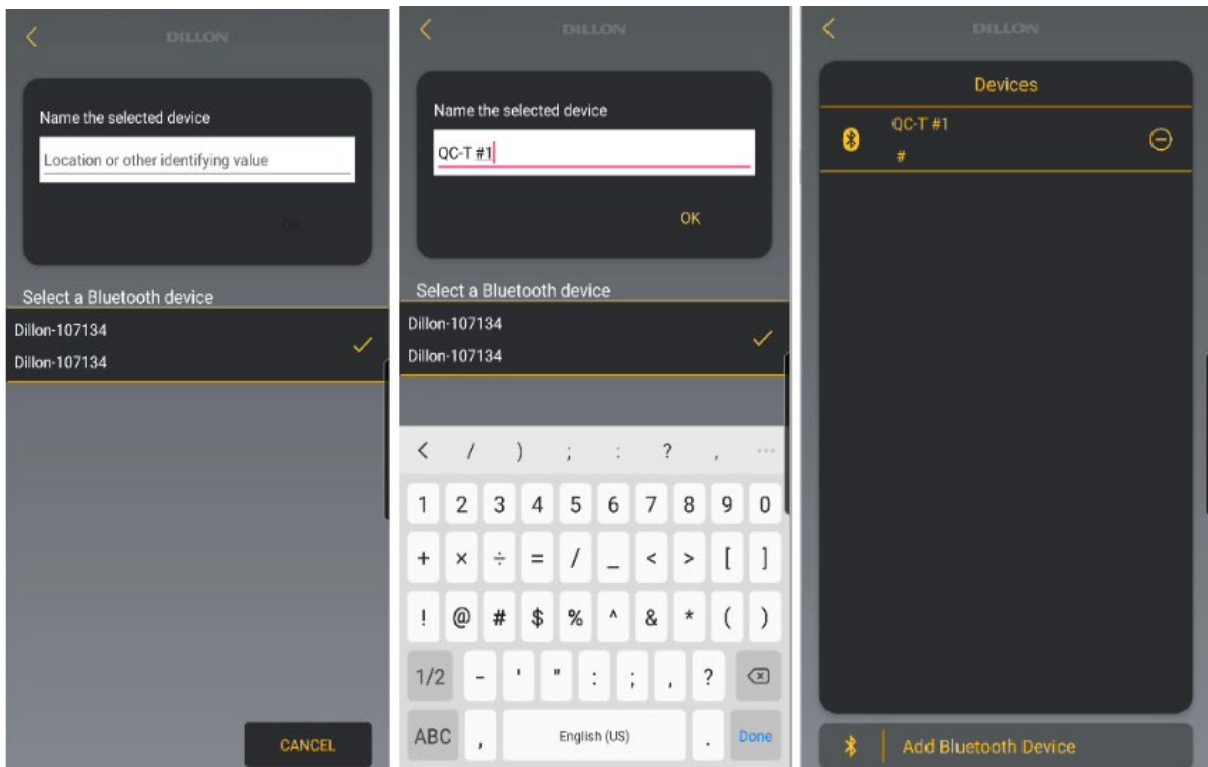
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5. The mobile device will now scan for powered on Quick Check-T's in the area and display them in the Devices List.
6. Select the Dillon-Serial Number of the device you want to connect to and **Name the Device**, then tap **OK**.

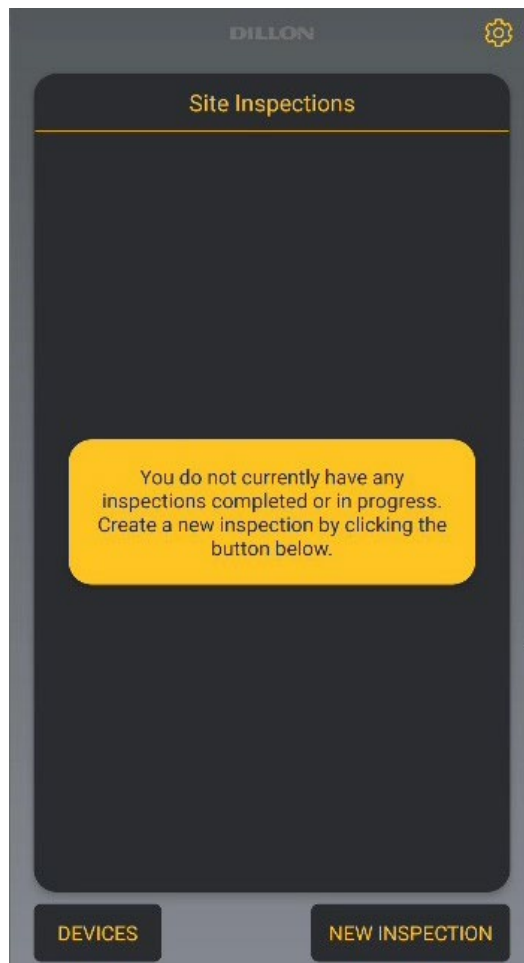


7. Tap the back arrow < to go back to the **Site Inspections** screen.



3. Application Settings

1. Tap on the Dillon Tower Icon on your Android or iOS mobile Device:
2. From the **Site Inspections** screen, tap on the settings **Gear** button.



3. The Application Settings lets you change the default parameters of the Tower Application.

The image displays two side-by-side screenshots of the 'DILLON' application's 'Application Settings' screen. The interface is dark-themed with white text and input fields. The left screenshot shows the top half of the settings, including fields for Temperature (set to Fahrenheit), Wind Speed (set to mph), Length (set to FT), GPS Readings (set to Phone), Weather Readings (set to Use Weather Service), Inspected By (set to John Doe), and Contractor Name (set to Dillon Tower Specialists). The right screenshot shows the bottom half of the settings, including fields for EHS Modulus of Elasticity in ksi (set to 23000) and BS Modulus of Elasticity in ksi (set to 24000), a toggle for Calibration Check Lockout (which is turned on), and a toggle for Demo Mode (which is turned off). Both screenshots feature an 'OK' button at the bottom center and footer text that reads 'Avery Weight-Tronix Copyright © 2021 Beta Version 1.0.76'.

Temperature - Used for Calculating Target Tensions.

- Fahrenheit (Default)
- Celsius

Wind Speed - Displayed on Wire Tension Screen and included in the Reports.

- mph (Default)
- kph
- m/s
- knots

Length - Attachment Elevation, Guy Radius, Guy Drop/ Rise unit of measure.

- Feet FT (Default)
- Meters M

GPS Readings - Which device's GPS is used when storing Pre Tn and Post Tn Readings.

- Phone (Default)
- Quick Check
 - The GPS feature must be enabled in the Quick Check.

Weather Readings - Used for Calculating Target Tensions.

- Use Weather Service (Default)
 - The Tower App uses the OpenWeather API to gather local weather information (Temperature and Windspeed). This does require that the mobile device has a Data connection (WiFi or Cellular) and location services enabled.
- Key in Manually
 - This allows the end-user to key in Temperature and Windspeed into the Wire Tension screen, so if the mobile device does not have a Data connection on site, they can still progress with the plumb and tensioning of the guy wires.

Inspected by - This is the end-user's name and will be automatically inserted into each New Site Inspection that is created.

Contractor Name - This is the name of the company performing the Tower Site Inspection or Maintenance and will be automatically inserted into each New Site Inspection that is created.

Email - This is the end-user's email and will be used when reports are exported off the phone via email.

EHS Modulus of Elasticity in ksi - This is used to calculate the Target Tensions on the Wire Tension screen.

- Default is 23,000, but different values can be entered and used.

BS Modulus of Elasticity in ksi - This is used to calculate the Target Tensions on the Wire Tension screen.

- Default is 24,000, but different values can be entered and used.

Calibration Check Lockout On/Off

- When enabled, this feature requires the end-user to perform a Calibration Check on the Wire Tensions Screen before Pre Tensioned "Initial" (Pre Tn) and Post Tensioned (Post Tn) readings can be stored.

Demo Mode On/Off

- When enabled, a default set of 16 Wire Sizes will be available on the Wire Tension screen, even if they are not part of the current Quick Check-T's calibration. This is intended for Application Demos and not for regular use. (Default is OFF)

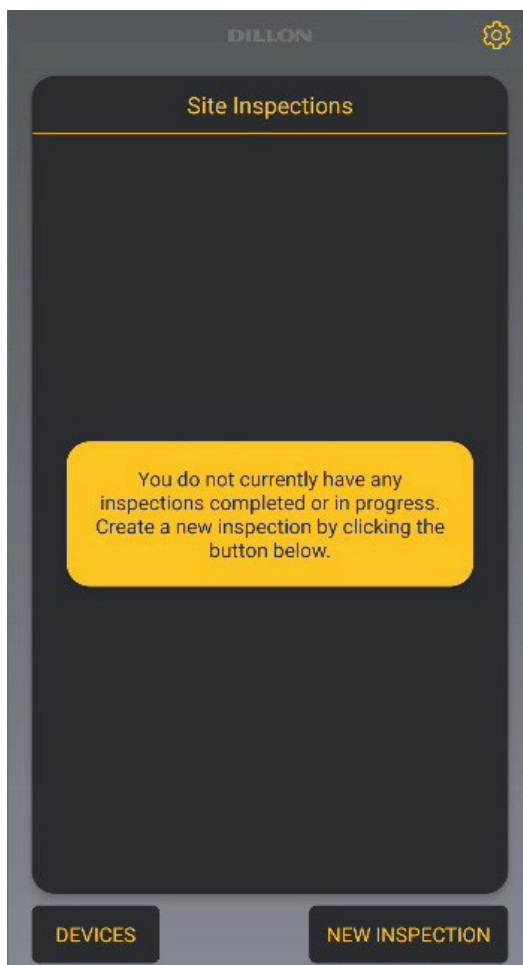
4. After making changes, tap **OK** to return to the **Site Inspections** screen.

4. Creating a new Site Inspection

1. Tap on the Dillon Tower icon on your Android or iOS mobile device:
2. From the **Site Inspections** screen, tap on the **New Inspection** button.



Dillon Tower



- This brings up a Site information screen where descriptive information can be entered for the Site the end-user is performing an Inspection or Maintenance on.

The image displays two side-by-side screenshots of the 'Site Information' screen in the DILLON app. Both screens feature a yellow hamburger menu icon in the top left corner and the 'DILLON' logo at the top center. The screen is divided into two main sections: 'Site Information' and 'Tower Specifications'.

Site Information Section:

- Site ID:** A text input field. In the right screenshot, it contains 'Dillon-123456'.
- Site Name:** A text input field. In the right screenshot, it contains 'Dillon Test Site'.
- Site Address:** A large text input field.
- Inspection Date:** A date input field. In both screenshots, it is pre-populated with '4/6/2021'.
- Contractor Name:** A text input field. In both screenshots, it is pre-populated with 'Dillon Tower Specialists'.
- Inspected By:** A text input field. In both screenshots, it is pre-populated with 'John Doe'.

Tower Specifications Section:

- GPS Latitude:** A text input field, currently empty in both screenshots.

The right screenshot also shows a standard iOS keyboard at the bottom, indicating that the 'Site Name' field is currently active for text entry.

- **Site ID** - This is a required field as the Records and Report reference this ID.
- **Site Name** - This is a required field as the Records and Report reference this Name.
- **Site Address** - optional Address of the Site.
- **Inspection Date** - Pre-populated with the Date and Site information, if entered.
- **Contractor Name** - This is the name of the company performing the Tower Site Inspection or Maintenance. This is pre-populated if entered on the Application Settings screen.
- **Inspected by** - This is the end-user's name. This is pre-populated if entered on the Application Settings screen.
- **GPS Latitude & Longitude** - These are the manually entered GPS coordinates of the Tower, if known.
- **Tower Manufacturer Name** - enter if known.
- **Tower Type** - enter if known.
- **Tower Structure Height** - enter if known.
- **Face Width** - This is the face width of the Tower, enter if known.

DILLON

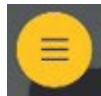
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- **Site Photo** - This feature allows the user to add a single photo of the Tower Site sign located at the site.
 - **Camera** - this button pulls up the mobile device's camera application.
 - **Photo Gallery** - this button pulls up the mobile device's photo gallery to search for a photo that has already been taken.
 - **Delete Photo** - this removes the current Site Photo so another can be taken in its place.

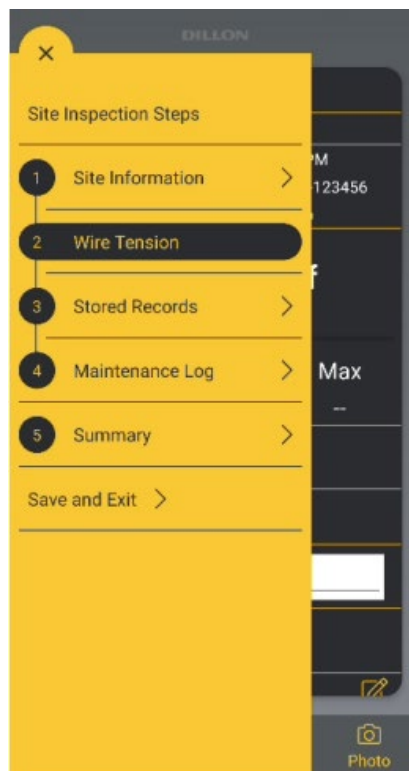
Example of Site Information:

The image displays three mobile application screens for the DILLON Force Measurement Equipment. Each screen features a yellow hamburger menu icon in the top left corner and the 'DILLON' brand name at the top.

- Screen 1: Site Information**
 - Site ID: Dillon-123456
 - Site Name: Dillon Test Site
 - Site Address: 1000 Armstrong Dr, Fairmont, MN 56031
 - Inspection Date: 4/6/2021
 - Contractor Name: Dillon Tower Specialists
 - Inspected By: John Doe
 - Tower Specifications section (partially visible): GPS Latitude
- Screen 2: Tower Specifications**
 - Inspected By: John Doe
 - Tower Specifications section:
 - GPS Latitude: 43.6522
 - GPS Longitude: -94.4611
 - Tower Manufacturer Name: ABC Inc.
 - Tower Type: 25 Series Guyed
 - Tower Structure Height: 450 ft
 - Face Width: 3.145 ft
 - Site Photo section (partially visible)
- Screen 3: Site Photo**
 - GPS Longitude: -94.4611
 - Tower Manufacturer Name: ABC Inc.
 - Tower Type: 25 Series Guyed
 - Tower Structure Height: 450 ft
 - Face Width: 3.145 ft
 - Site Photo section:
 - Buttons: CAMERA, PHOTO GALLERY, DELETE PHOTO
 - Image: A photograph of a tower site sign with the following text:
SITE ID#: MS04594
FCC#: 7216076
LEASING: (800) 487-SITE (7468)
EMERGENCY: (888) 950-SITE (7463)

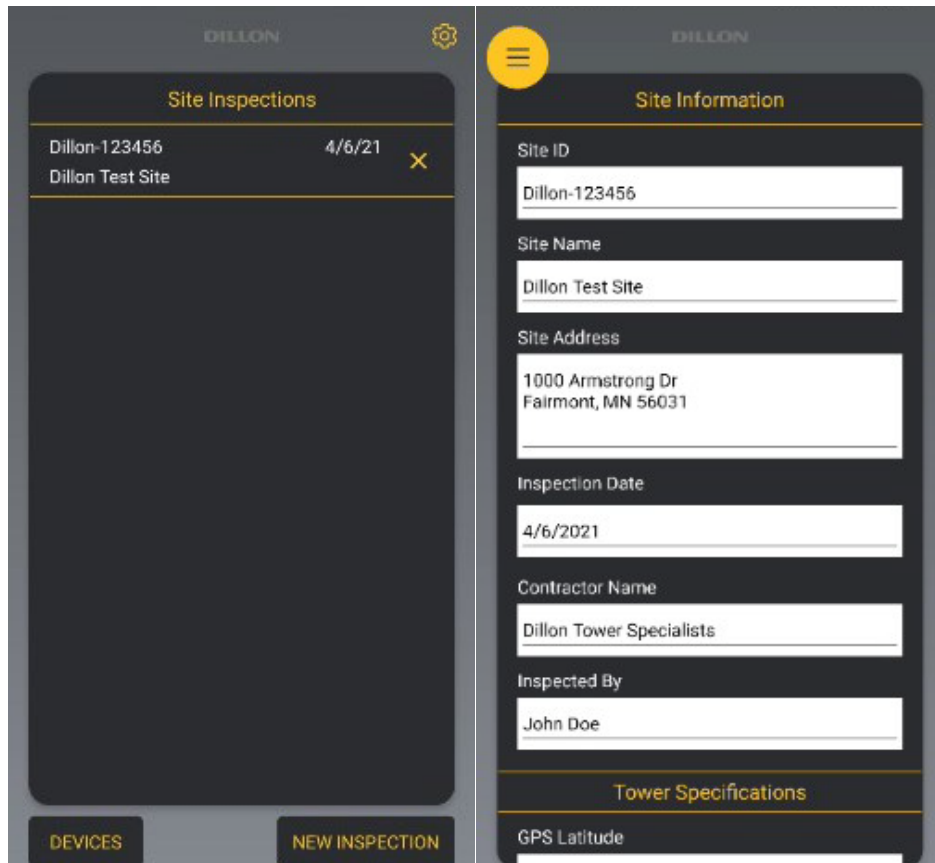


4. Tap the yellow **Menu Button**, then tap **Save & Exit**



5 Quick Calibration Check

1. Tap on the Dillon Tower Icon on your Android or iOS mobile device:
2. From the **Site Inspections** screen, select the Inspection you would like to add wire tension readings to.



The image displays two screenshots of the Dillon mobile application interface.

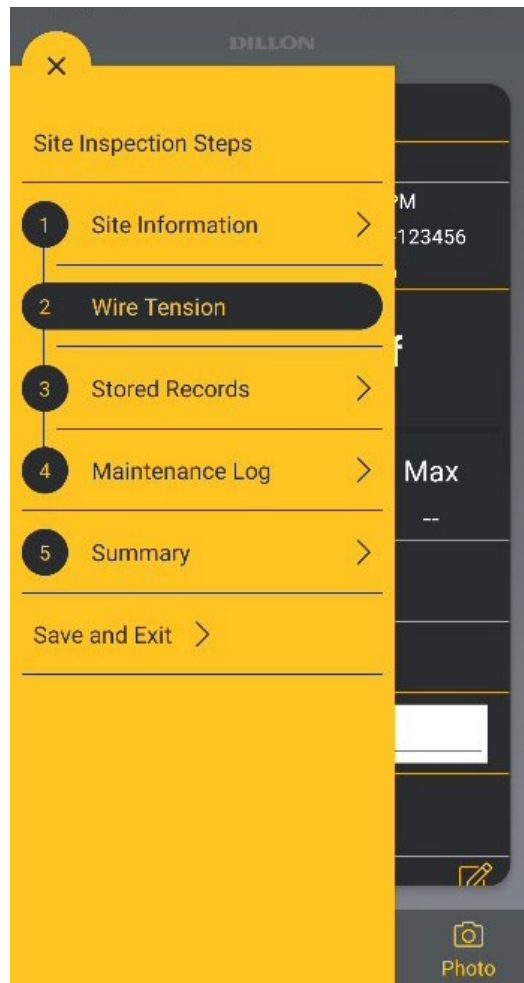
Left Screenshot: Site Inspections

- Header: DILLON
- Title: Site Inspections
- Content: A list of inspections. The first entry is "Dillon-123456" with a date "4/6/21" and a close icon (X). Below it is "Dillon Test Site".
- Bottom Buttons: DEVICES, NEW INSPECTION

Right Screenshot: Site Information

- Header: DILLON
- Title: Site Information
- Fields:
 - Site ID: Dillon-123456
 - Site Name: Dillon Test Site
 - Site Address: 1000 Armstrong Dr, Fairmont, MN 56031
 - Inspection Date: 4/6/2021
 - Contractor Name: Dillon Tower Specialists
 - Inspected By: John Doe
- Section: Tower Specifications
- Field: GPS Latitude

3. Tap the yellow **Menu Button** , then tap **Wire Tension**.



At this time, the mobile device will attempt to wirelessly connect to the Quick Check-T selected in the **Devices** screen. If unsuccessful, ensure the Quick Check-T is powered on and visible in the **Devices**.

4. Once connected, the Quick Check-T Device information (Capacity, Serial Number, and Calibration Due Date) will be visible at the top of the screen. The live Tension reading will also be visible.

- The Check Calibration button at the bottom of the Wire Tension screen enables the user to check the Quick Check-T to ensure it is within calibration. When the user taps the **Check Calibration** button, the user is prompted to insert the Calibration Check Rod that was calibrated with the Quick Check-T.

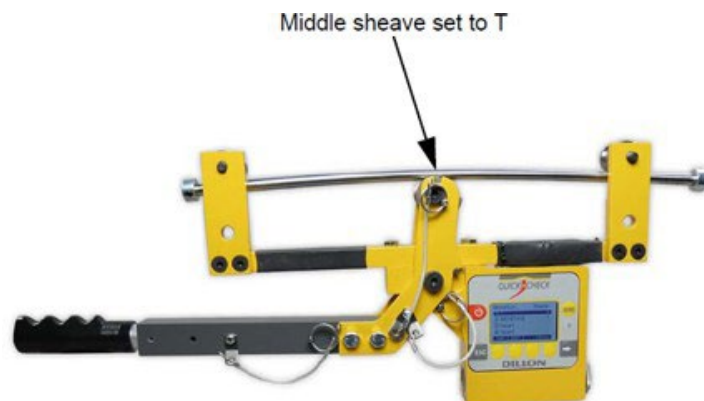


CAUTION!

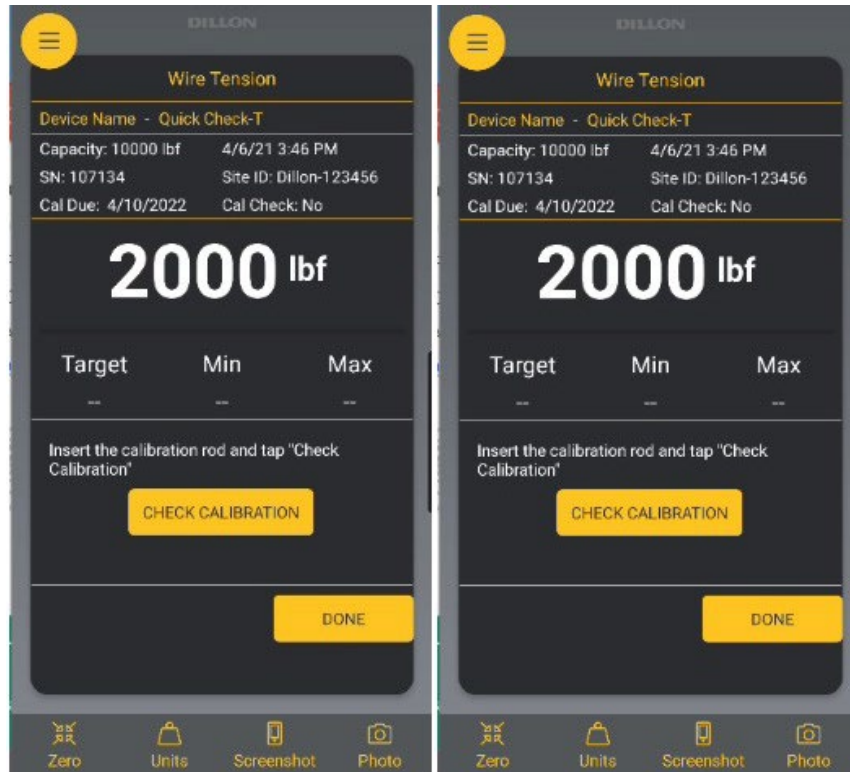
Before using the calibration check rod, verify that the middle sheave of the Quick Check-T is in the "T" position. Using the calibration check rod with the middle sheave in any other position will result in damage to the rod, requiring both the rod and Quick Check-T to be sent in for recalibration.

The calibration check rod included with the Quick Check-T is intended to verify the tension meter is within calibration. Each calibration check rod is stamped with a serial number and the Quick Check-T will have a calibration associated with that serial number.

- Clamp the Quick Check-T onto the calibration rod. Be sure the rod is riding in the center groove of all three sheaves, as shown above. *The tension displayed should be 2000 lbs \pm 80 lbs at 70 degrees Fahrenheit (approximately 21 degrees Celsius) to be considered within tolerance.*



7. Tap the **Check Calibration** button on the Tower App to store the Cal Check reading. If the reading is within tolerance, **Cal Check: Yes** will be displayed at the top of the screen and will be exported in the report summary.



Note: The Tower App accepts calibration Check Rod Tension readings between 2000 lbs \pm 80 lbs to take into consideration temperature variations while on site. It is recommended to send in the Quick Check-T and Cal Rod for calibration every 12 months or as indicated by the Calibration Due Date on the Quick Check.

8. Tap **Done** to return to the **Wire Tension** screen.



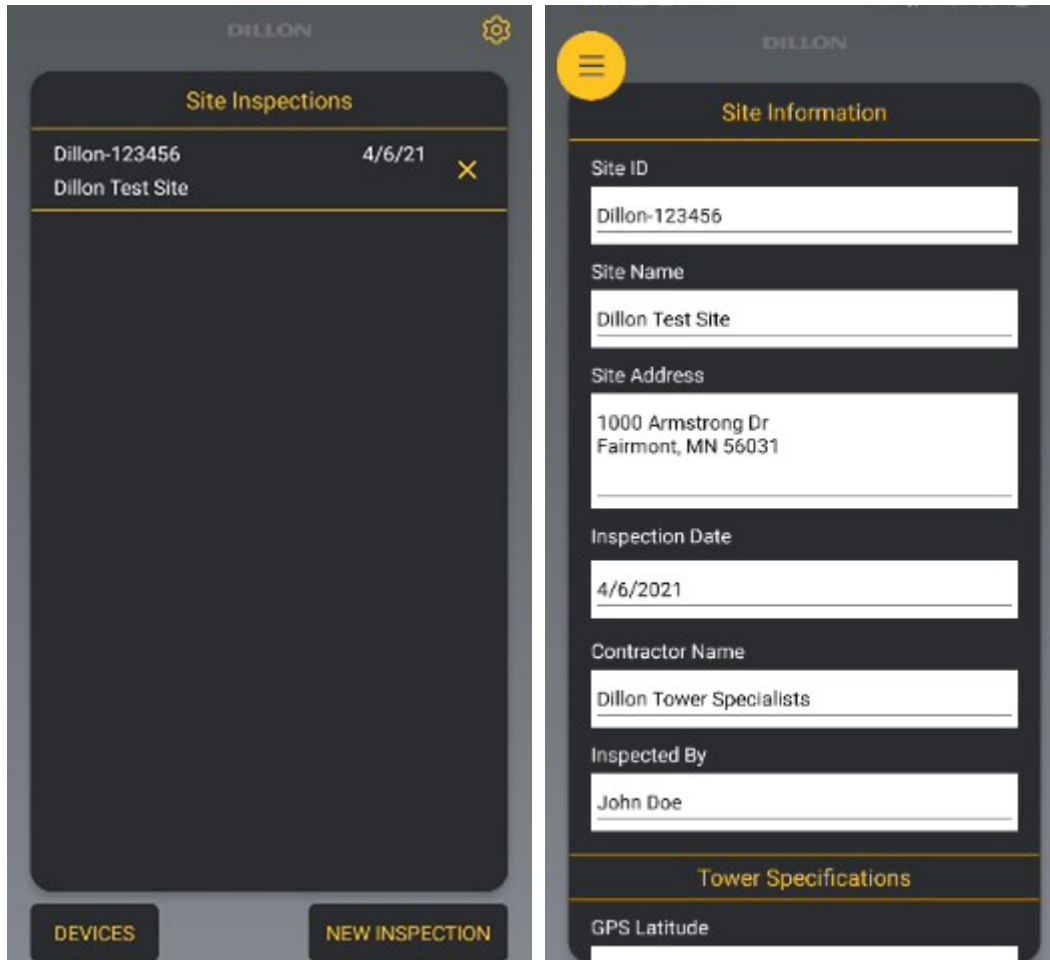
Note: The Check Calibration process changes the selected Wire to the Cal Rod on the Quick Check-T. Before using the Quick Check, ensure the proper wire size is selected on the Wire Tension screen.

6 Wire Tension Readings

1. Tap on the Dillon Tower icon on your Android or iOS mobile device:



2. From the **Site Inspections** screen, select the Inspection you would like to add wire tension readings to.

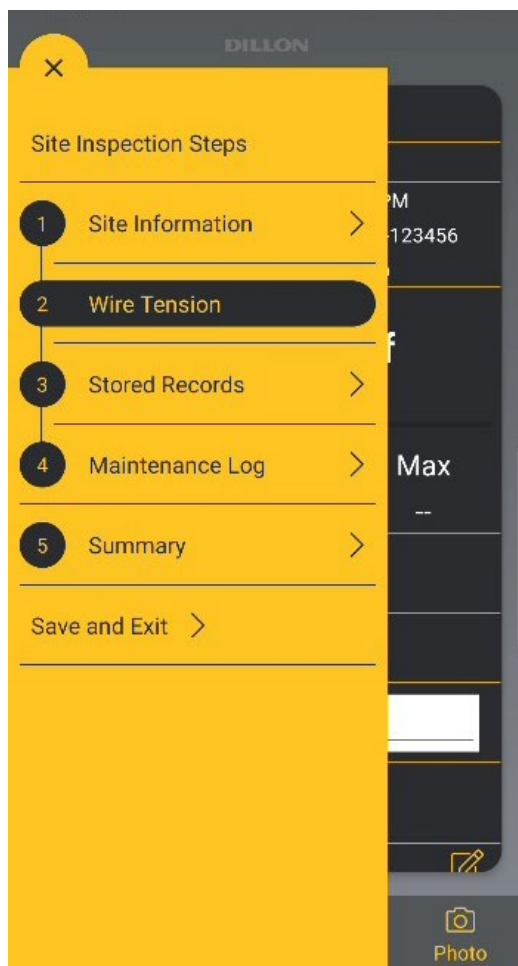


The left screenshot shows the 'Site Inspections' screen. At the top, there is a header 'DILLON' and a settings gear icon. Below the header, the title 'Site Inspections' is displayed. A list of inspections is shown, with the first entry being 'Dillon-123456' with a date '4/6/21' and a yellow 'X' icon. Below this, the text 'Dillon Test Site' is visible. At the bottom, there are two buttons: 'DEVICES' and 'NEW INSPECTION'.

The right screenshot shows the 'Site Information' screen. At the top, there is a header 'DILLON' and a yellow menu icon. Below the header, the title 'Site Information' is displayed. The screen contains several input fields: 'Site ID' (Dillon-123456), 'Site Name' (Dillon Test Site), 'Site Address' (1000 Armstrong Dr, Fairmont, MN 56031), 'Inspection Date' (4/6/2021), 'Contractor Name' (Dillon Tower Specialists), and 'Inspected By' (John Doe). Below these fields, there is a section titled 'Tower Specifications' with a 'GPS Latitude' field.



3. Tap the yellow **Menu Button**, then tap **Wire Tension**.



At this time, the mobile device will attempt to wirelessly connect to the Quick Check-T selected in the Devices screen. If unsuccessful, ensure the Quick Check-T is powered on and visible in the **Devices** menu.

DILLON

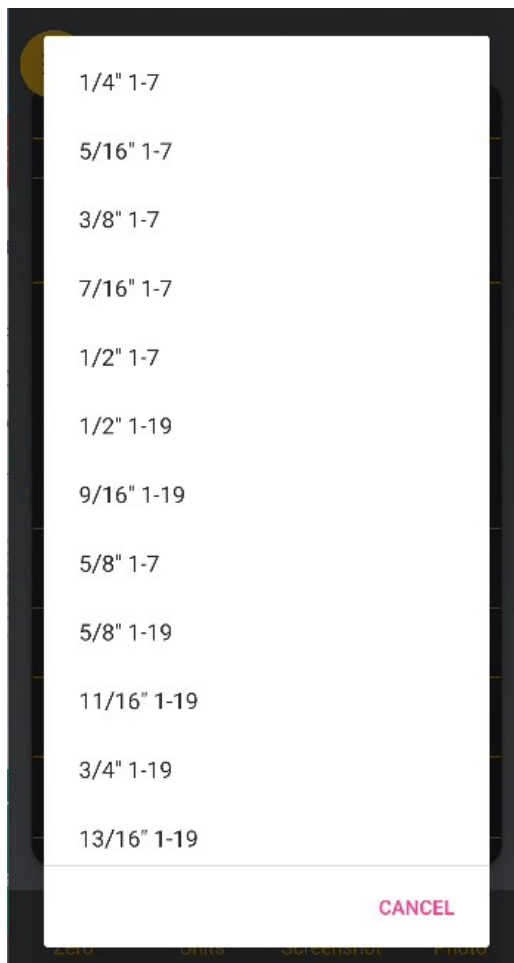
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- Once connected, the Quick Check-T Device information (Capacity, Serial Number, and Calibration Due Date) will be visible at the top of the screen. The live Tension reading will also be visible.

The screenshot shows the 'Wire Tension' screen of the Dillon Quick Check-T mobile application. At the top, there is a yellow menu icon. Below it, the title 'Wire Tension' is displayed. The device information section includes: 'Device Name - Quick Check-T', 'Capacity: 10000 lbf', 'SN: 107134', 'Cal Due: 4/10/2022', '4/6/21 3:39 PM', 'Site ID: Dillon-123456', and 'Cal Check: No'. A large digital display shows '0 lbf'. Below this, there are three columns for 'Target', 'Min', and 'Max', each with a blank input field. A 'Select Wire' dropdown menu is present. The 'Sheave Position' section has an 'Anchor' dropdown and a 'Guy Level' dropdown. A prominent yellow 'PRE TENSION' button is located below these fields. At the bottom, there are 'Temp' and 'Wind' labels with corresponding input fields. The bottom navigation bar contains four icons: 'Zero', 'Units', 'Screenshot', and 'Photo'.

- The Target, Min & Max Tensions will be blank. Once the Tower and Guy Wire measurements are entered, these will be calculated.

6. Tap the white box next to **Select Wire** to choose the Wire Size selection. This list is comprised of all the Wire calibrations in the current connected Quick Check-T.



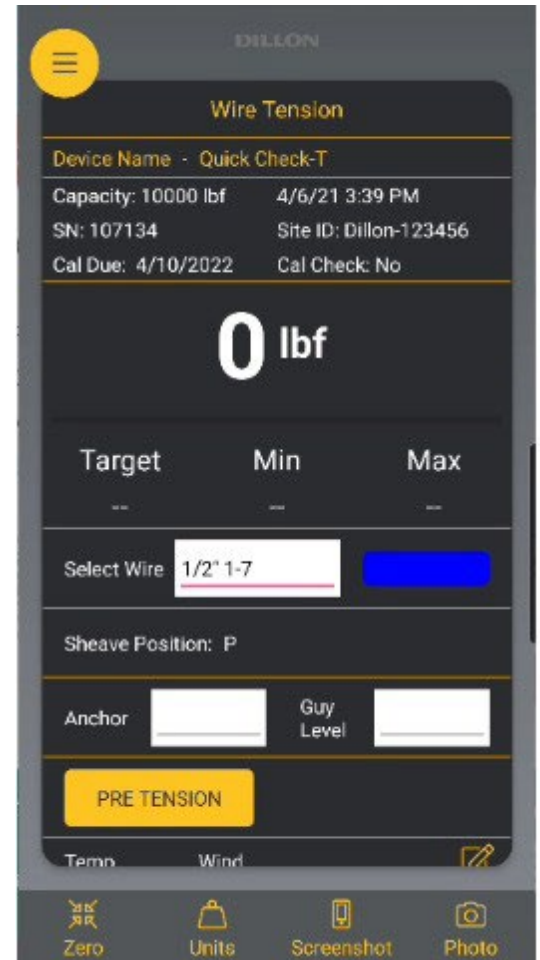
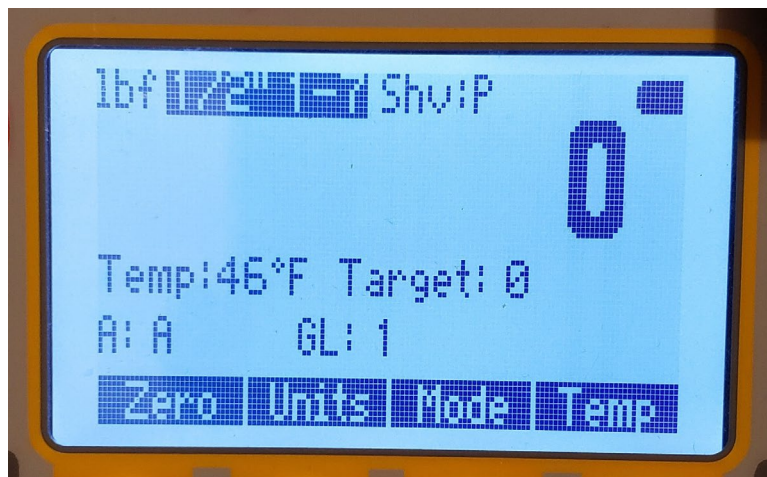
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7. Once you select a wire, it will now be visible on the Wire Tension screen and will be selected on the Quick Check-T. The Colored Box next to the Wire Size indicates the paint color of the overwrap on the guy wire cable (Blue in the 1/2" cable example below).



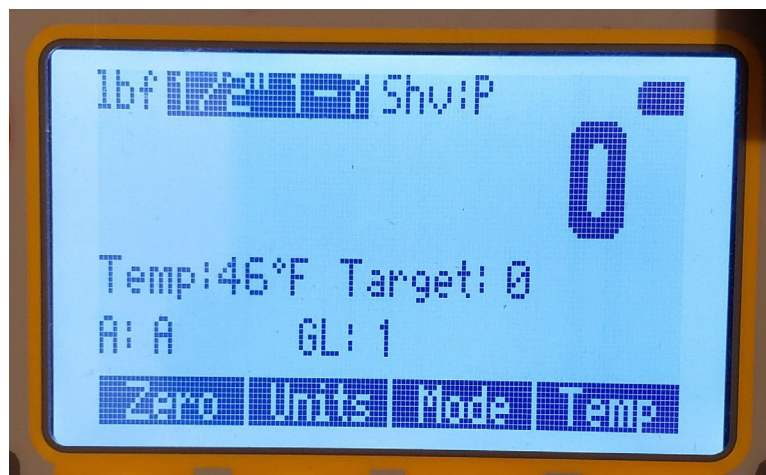
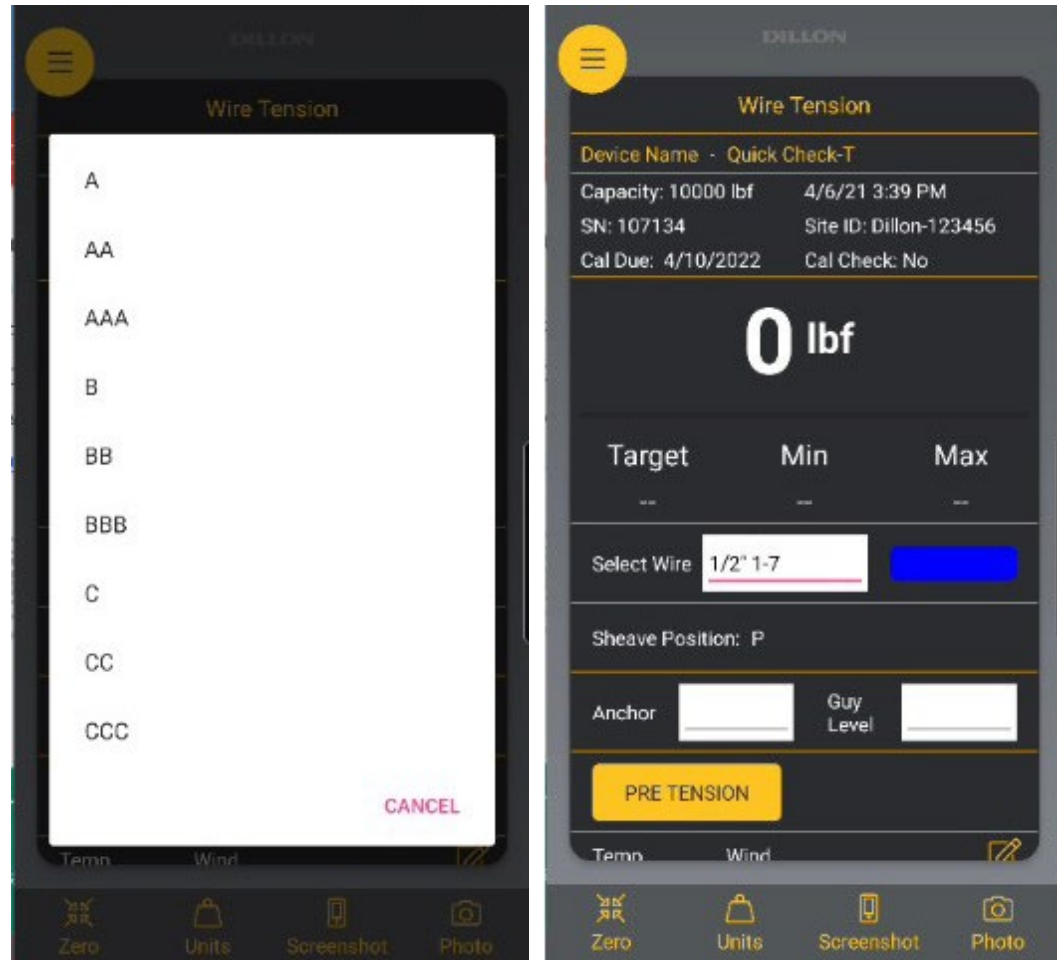
Note: When connected to Tower Application, the mobile device is considered the master. If the Wire selection is changed on the Quick Check-T, the mobile device will set it back to the size selected in the application automatically within a few seconds.



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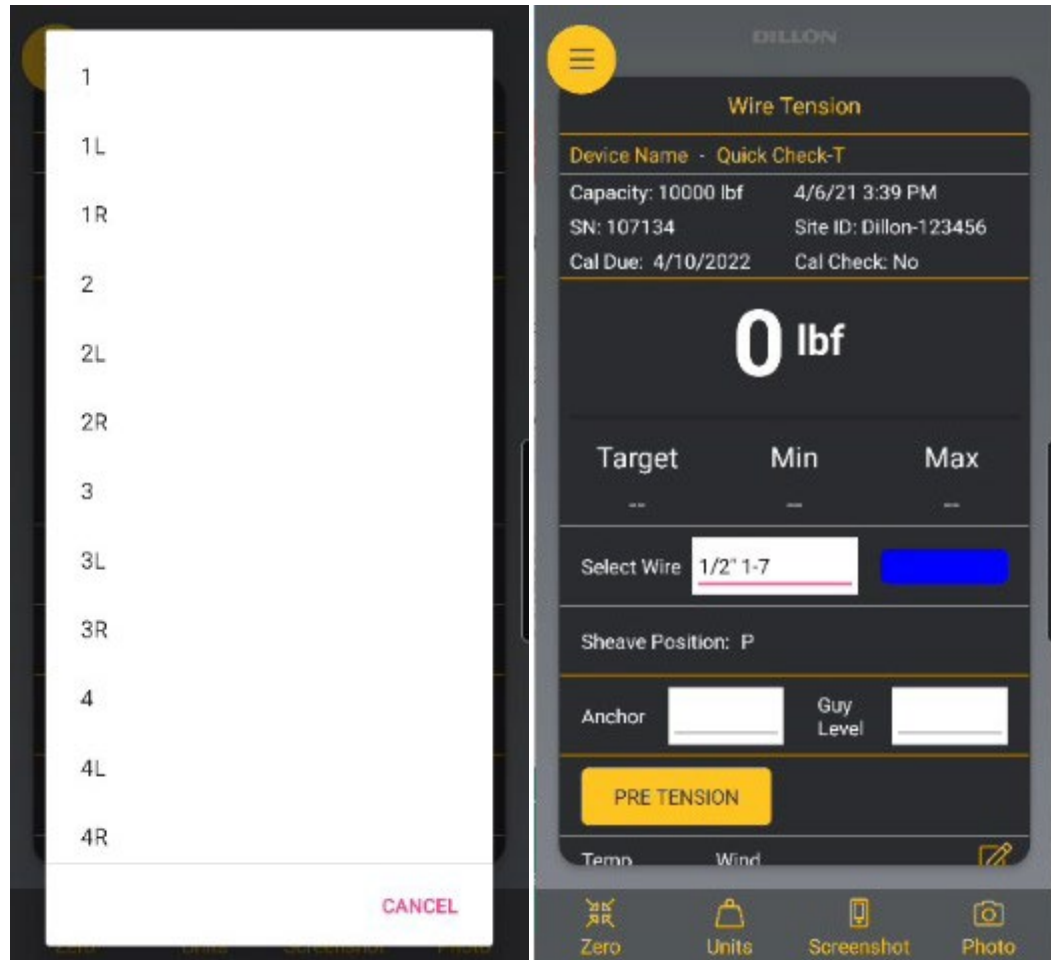
8. Tap the white box next to **Anchor** to choose the Anchor selection. The selected Anchor will show up on the Wire Tension screen as well as the Quick Check-T's screen.

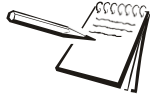


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9. Tap the white box next to **Guy Level** to choose the Guy Level (Wire) selection. The selected Guy Level will show up on the Wire Tension and the Quick Check-T's screens.





Note: It is important to have an Anchor & Guy Level selected, as the Pre Tension and Post Tension readings are stored with reference to the chosen selections.

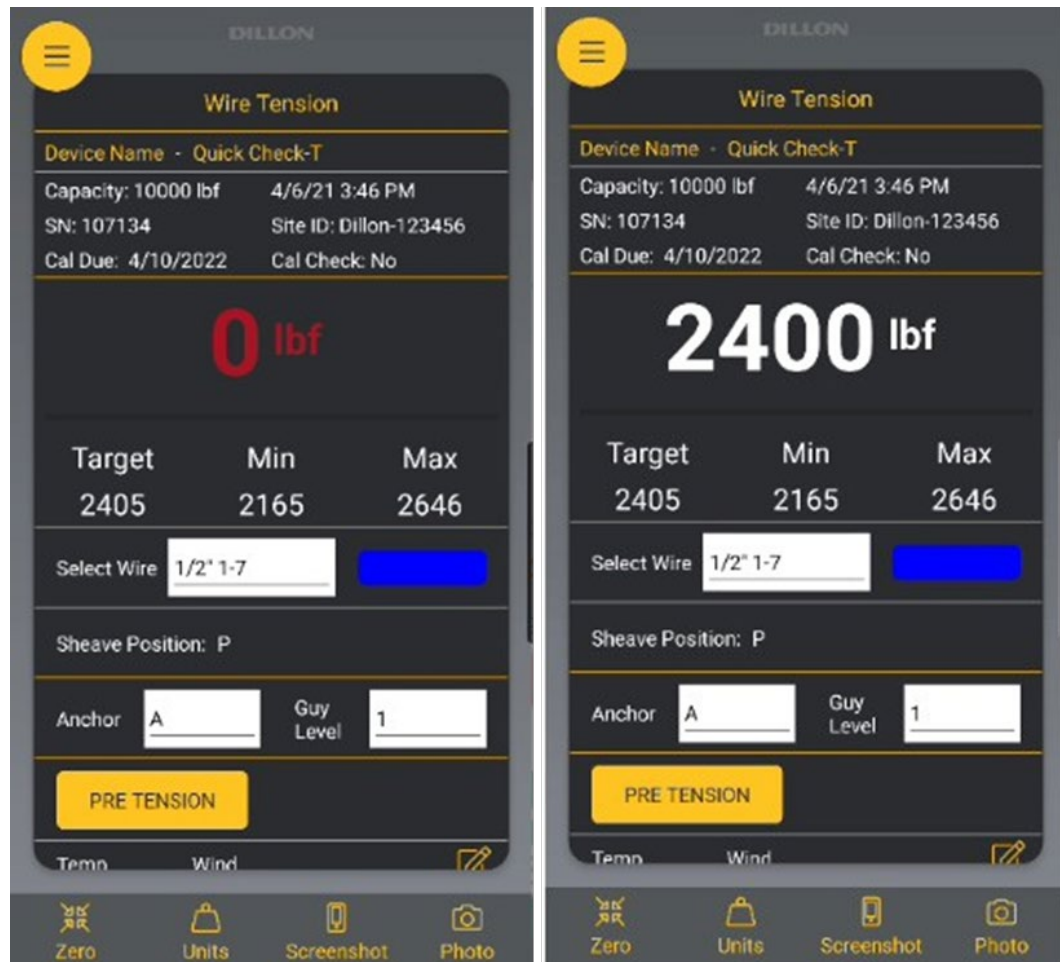
10. Enter in the Tower Measurements (Attachment Elevation, Guy Radius, Guy Drop/Rise) by taping the white boxes next to the labels.

The screenshots show the 'PRE TENSION' screen of the Dillon app. The interface includes fields for Anchor (A), Guy Level (1), Temp (73.38 °F), Wind (4.61 mph ESE), Attachment Elevation (150 ft), Guy Radius (650 ft), Guy Drop/Rise (0 ft), Wire Type (EHS), and Initial Tension (10 %). A numeric keypad is overlaid on the bottom of the screen in the second and third screenshots, showing how to enter values into the white input boxes.

At this time, you can also change the Wire Type from Extra High Strength (EHS) to Bridge Strand (BS) and set the Initial Tension%.

- **Guy Drop/Rise:** Default is 0
- **Wire Type:** Default is EHS
- **Initial Tension%:** Default is 10%

11. Once the Tower Measurements are entered, the Target, Min, and Max Tensions are calculated and displayed under the live tension reading. The Red Live Tension reading indicates the Tension is outside the Min/Max values of the Target tension. Once the Wire is within the Min/Max values, the Tension reading will be white.



12. The Temperature and Wind Speed are displayed on the Wire Tension screen and used to calculate the Target/Min/Max tension. By tapping the **Edit** icon, you can change whether the Temperature and Wind Speed are **Keyed in Manually** or updated automatically from the **Weather Service**.

Weather Service (Default)

- The Tower App uses the OpenWeather API to gather local weather information (Temperature and Wind Speed). This does require that the mobile device has a data connection (WiFi or Cellular) and location services enabled.

Key in Manually

- This allows the end-user to key in Temperature and Wind Speed into the Wire Tension screen.

The image displays three sequential screenshots of the DILLON Tower App interface, specifically the Weather Reading screen. The first screenshot shows the 'PRE TENSION' screen with fields for Anchor (A), Guy Level (1), Temp (73.38 °F), Wind (4.61 mph ESE), Attachment Elevation (150 ft), Guy Radius (650 ft), Guy Drop/Rise (0 ft), Wire Type (EHS), and Initial Tension (10 %). A 'CHECK CALIBRATION' button is at the bottom. The second screenshot shows the 'Weather Reading' screen with two tabs: 'Key In Manually' and 'Use Weather Service'. The 'Key In Manually' tab is selected, showing fields for Temperature (73.38 °F), Wind Speed (4.61 mph), and Wind Direction (ESE). Below these are fields for Current GPS Reading (Latitude: 44.112798, Longitude: -94.234159). At the bottom, there are 'CANCEL' and 'OK' buttons. The third screenshot shows the 'Weather Reading' screen with the 'Use Weather Service' tab selected. It shows fields for Temperature (73.38 °F), Wind Speed (4.61 mph), and Wind Direction (empty). Below these are fields for Current GPS Reading (Latitude: 44.112798, Longitude: -94.234159). At the bottom, there are 'CANCEL' and 'OK' buttons.

13. Tap the **OK** button when finished to return to the Wire Tension screen.

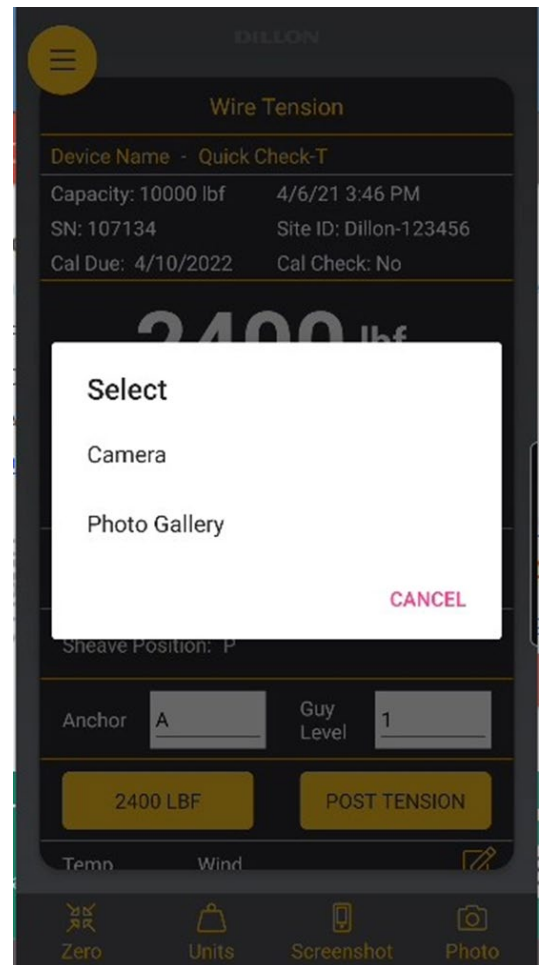
14. Taping the **Pre Tension** button will store the initial Guy Wire Tension reading to the Anchor and Guy Level selection made. The value of the Pre Tension reading will show where the Pre Tension button used to be.

The image displays two identical screenshots of the Dillon Wire Tension app interface, side-by-side. The app is titled "DILLON" and "Wire Tension". It shows device information: "Device Name - Quick Check-T", "Capacity: 10000 lbf", "SN: 107134", "Cal Due: 4/10/2022", "4/6/21 3:46 PM", "Site ID: Dillon-123456", and "Cal Check: No". The main display shows a large "2400 lbf" reading. Below this is a table with "Target", "Min", and "Max" values: 2405, 2165, and 2646. The "Select Wire" dropdown is set to "1/2\" 1-7". The "Sheave Position" is set to "P". The "Anchor" is set to "A" and the "Guy Level" is set to "1". At the bottom, there are two yellow buttons: "2400 LBF" on the left and "POST TENSION" on the right. The bottom navigation bar includes "Temp", "Wind", "Zero", "Units", "Screenshot", and "Photo".

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15. After a Pre Tension Reading has been stored, Screenshots and/or Photos can be attached to an Anchor & Guy Level record.
 - Taping the Screenshot button at the bottom of the Wire Tension screen will store the current screen to the record. Multiple screenshots can be stored for each record.
 - Taping the **Photo** button brings up a screen to select either **Camera** or **Photo Gallery** for the source of the photo.
16. After the Guy Wire has been tensioned to target, the Post Tension button can be taped to store the final tension to the Anchor and Guy Level selected. The value of the Post Tension reading will show where the Post Tension button used to be.



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The image displays two side-by-side screenshots of the DILLON Wire Tension application interface. Both screens show the same data fields, but the tension reading and the 'POST TENSION' button label differ.

Left Screenshot (2400 lbf):

- Device Name:** Quick Check-T
- Capacity:** 10000 lbf
- SN:** 107134
- Cal Due:** 4/10/2022
- 4/6/21 3:46 PM**
- Site ID:** Dillon-123456
- Cal Check:** No
- Reading:** 2400 lbf
- Target:** 2405
- Min:** 2165
- Max:** 2646
- Select Wire:** 1/2" 1-7
- Sheave Position:** P
- Anchor:** A
- Guy Level:** 1
- Buttons:** 2400 LBF, POST TENSION
- Temp** **Wind**

Right Screenshot (2500 lbf):

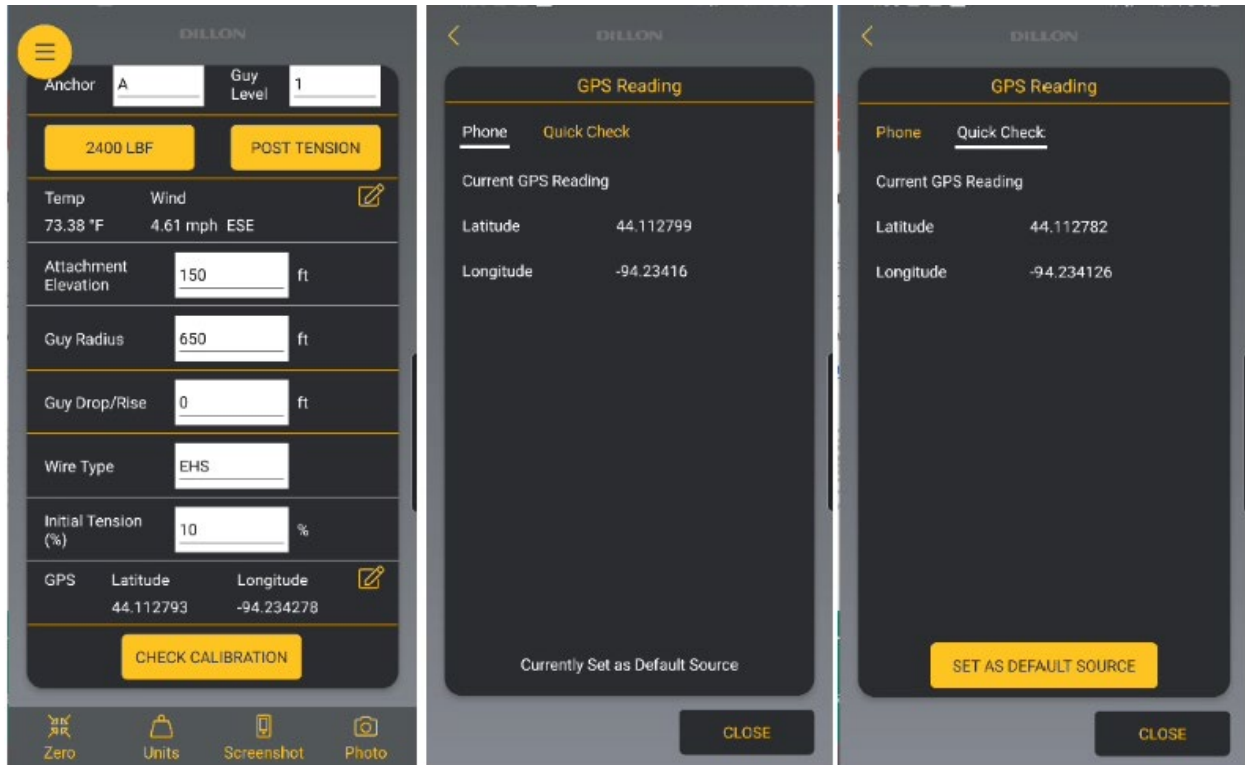
- Device Name:** Quick Check-T
- Capacity:** 10000 lbf
- SN:** 107134
- Cal Due:** 4/10/2022
- 4/6/21 3:46 PM**
- Site ID:** Dillon-123456
- Cal Check:** No
- Reading:** 2500 lbf
- Target:** 2405
- Min:** 2165
- Max:** 2646
- Select Wire:** 1/2" 1-7
- Sheave Position:** P
- Anchor:** A
- Guy Level:** 1
- Buttons:** 2400 LBF, 2500 LBF
- Temp** **Wind**

Bottom Navigation Bar (common to both):

- Zero
- Units
- Screenshot
- Photo

17. Additional Screenshots or Photos can be stored to this record as well by tapping the Screenshot or Photo buttons.

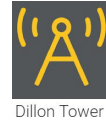
- Once a Pre Tension reading has been stored, the GPS coordinates will be visible on the Wire Tension screen for that Anchor and Guy Level selection. By tapping the Edit icon, the user can change whether the GPS readings are from the mobile device or the built in GPS in the Quick Check-T.



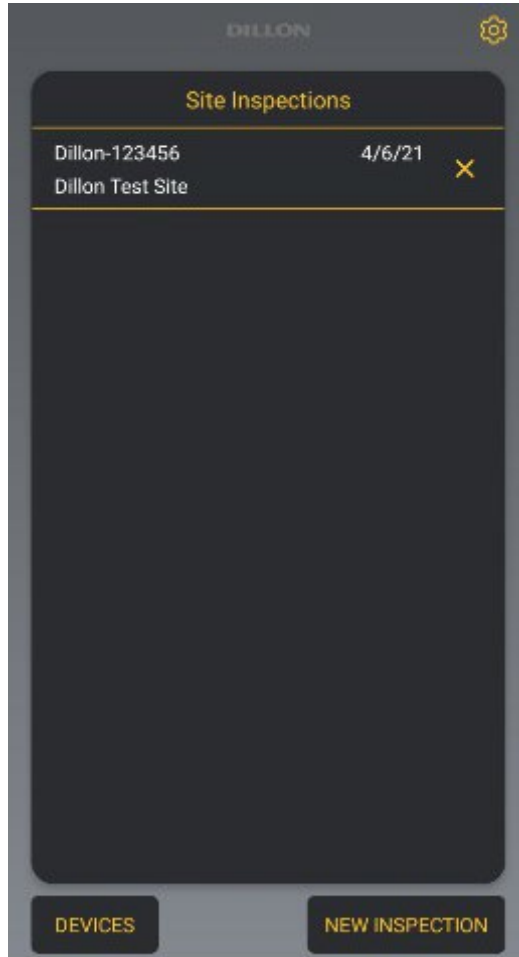
- Once selected, tap Close to return to the Wire Tension screen.

7 Viewing Stored Records

1. Tap on the Dillon Tower icon on your Android or iOS mobile device:



2. From the **Site Inspections** screen, select the inspection you would like to view the stored records on.



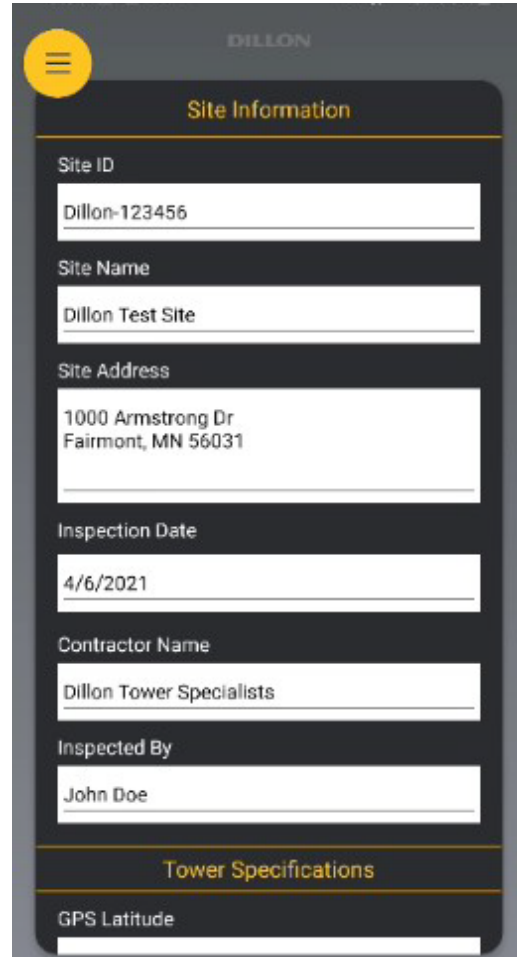
DILLON

Site Inspections

Dillon-123456	4/6/21	✕
Dillon Test Site		

DEVICES

NEW INSPECTION



DILLON

Site Information

Site ID

Dillon-123456

Site Name

Dillon Test Site

Site Address

1000 Armstrong Dr
Fairmont, MN 56031

Inspection Date

4/6/2021

Contractor Name

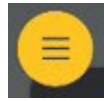
Dillon Tower Specialists

Inspected By

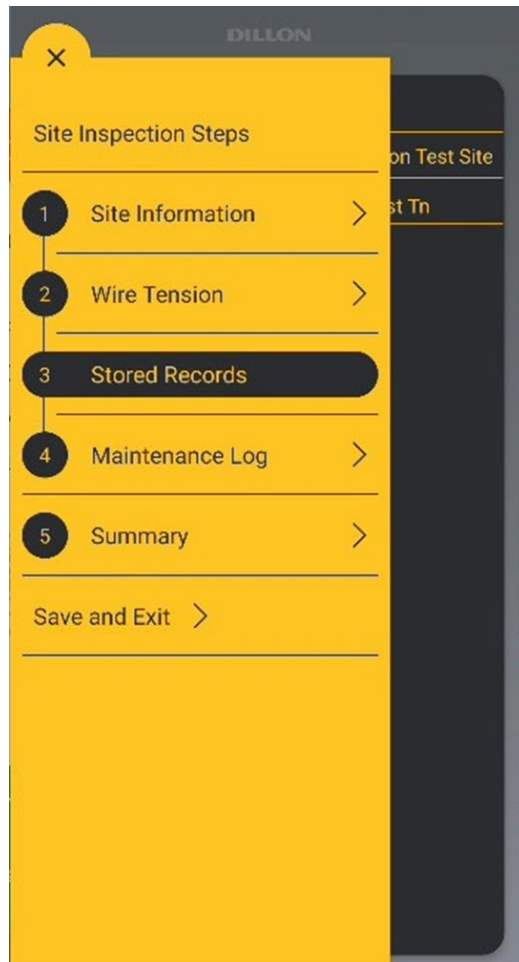
John Doe

Tower Specifications

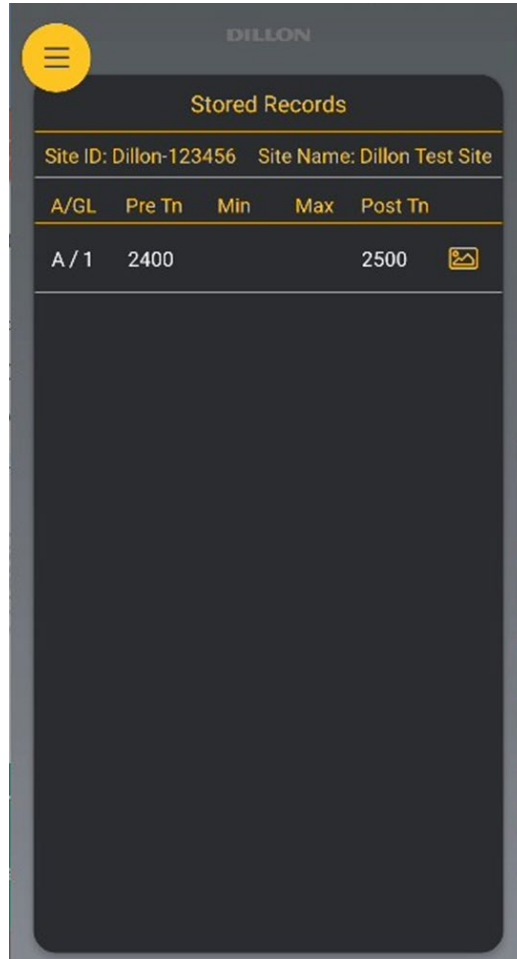
GPS Latitude




3. Tap the yellow **Menu Button** , then tap **Stored Records**.



4. This screen shows a summary of all the Pre Tension (Pre Tn) and Post Tension (Post Tn) records stored for each Anchor and Guy Level.



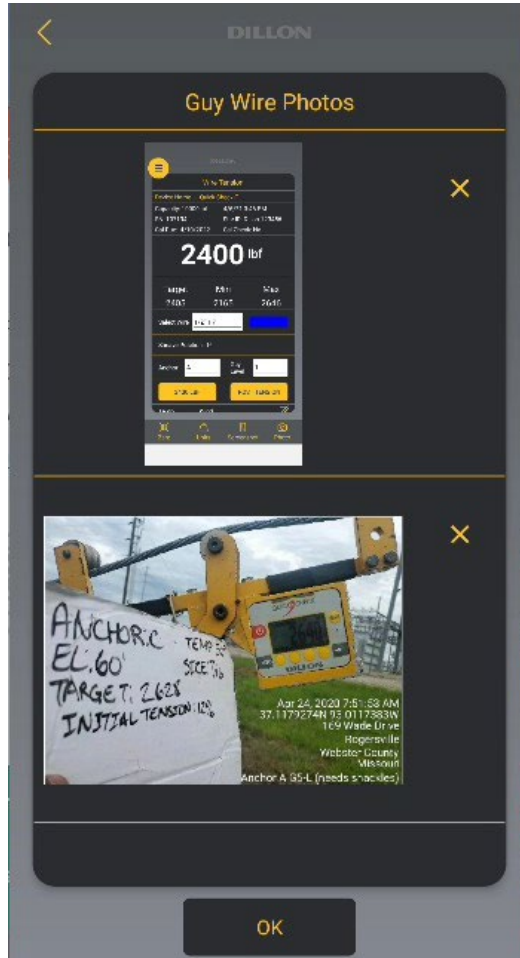
The screenshot displays a mobile application interface for 'DILLON'. At the top, there is a yellow circular menu icon. Below it, the title 'Stored Records' is centered. The screen shows site information: 'Site ID: Dillon-123456' and 'Site Name: Dillon Test Site'. Below this is a table with columns for 'A/GL', 'Pre Tn', 'Min', 'Max', and 'Post Tn'. The first row of data shows 'A / 1', '2400', and '2500', with a small icon in the 'Post Tn' column. The rest of the table area is empty.

Stored Records				
Site ID: Dillon-123456 Site Name: Dillon Test Site				
A/GL	Pre Tn	Min	Max	Post Tn
A / 1	2400		2500	

DILLON

Force Measurement Equipment

- By tapping on the Photo icon, the associated Screenshots and Photos can be viewed. By tapping the **X**, the screenshot and photo will be deleted from the record. Tap **OK** to return to the Store Records screen.



DILLON

Force Measurement Equipment

- By tapping any of the store records, the Wire Tension screen will be brought up with the selected Anchor and Guy Level settings already loaded. The intent is the user will periodically go to the Stored Records screen to see a summary of the guy tension measurements and jump to the selected Anchor and Guy Level to complete the Post Tension measurements after adjustments have been made.

Stored Records

Site ID: Dillon-123456 Site Name: Dillon Test Site

A/GL	Pre Tn	Min	Max	Post Tn
A / 1	2400			2500

Wire Tension

Device Name - Quick Check-T

Capacity: 10000 lbf 4/6/21 3:46 PM

SN: 107134 Site ID: Dillon-123456

Cal Due: 4/10/2022 Cal Check: No

2500 lbf

Target	Min	Max
2405	2165	2646

Select Wire 1/2' 1-7

Sheave Position: P

Anchor A Guy Level 1

2400 LBF 2500 LBF

Temp Wind

Zero Units Screenshot Photo

8 Adding Maintenance Items to a Site Inspection Report

1. Tap on the Dillon Tower icon on your Android or iOS mobile device:



2. From the **Site Inspection** screen, select the Inspection you would like to add the Maintenance Items to.


The image displays two screenshots of the Dillon mobile application interface. The left screenshot shows the 'Site Inspections' screen, which lists existing inspections. The right screenshot shows the 'Site Information' screen, which contains fields for entering site details.

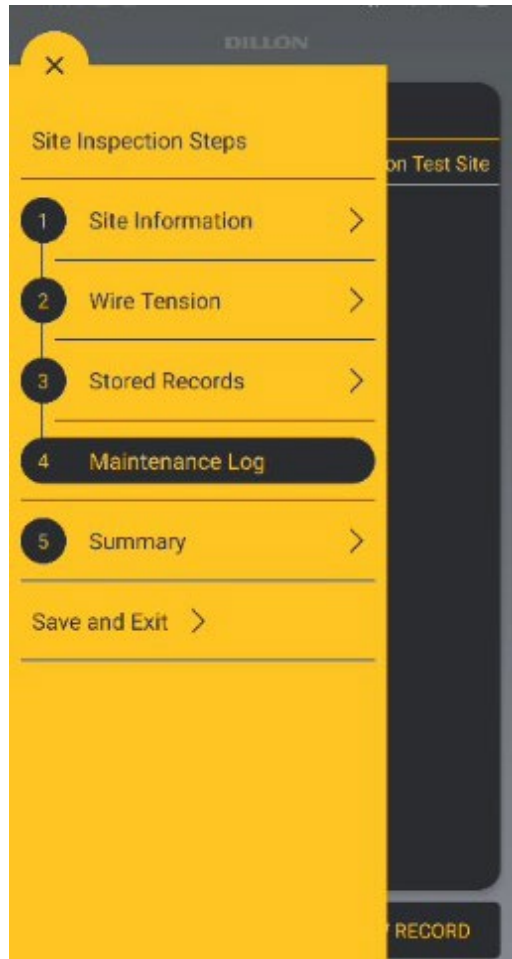
Site Inspections Screen (Left):

- Header: DILLON
- Title: Site Inspections
- Inspection List:
 - Dillon-123456
 - Dillon Test Site
- Date: 4/6/21
- Action: X (Close)
- Bottom Buttons: DEVICES, NEW INSPECTION

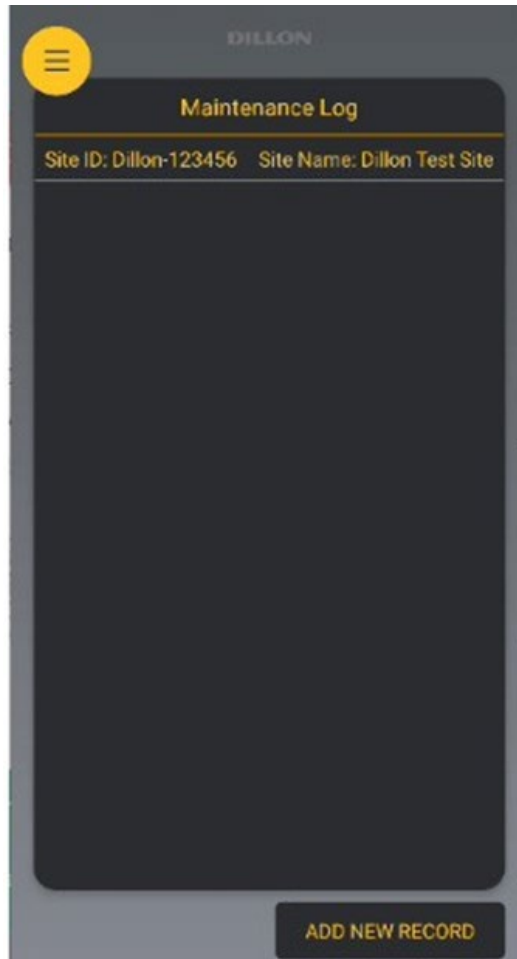
Site Information Screen (Right):

- Header: DILLON
- Title: Site Information
- Fields:
 - Site ID: Dillon-123456
 - Site Name: Dillon Test Site
 - Site Address: 1000 Armstrong Dr, Fairmont, MN 56031
 - Inspection Date: 4/6/2021
 - Contractor Name: Dillon Tower Specialists
 - Inspected By: John Doe
- Section: Tower Specifications
- Field: GPS Latitude

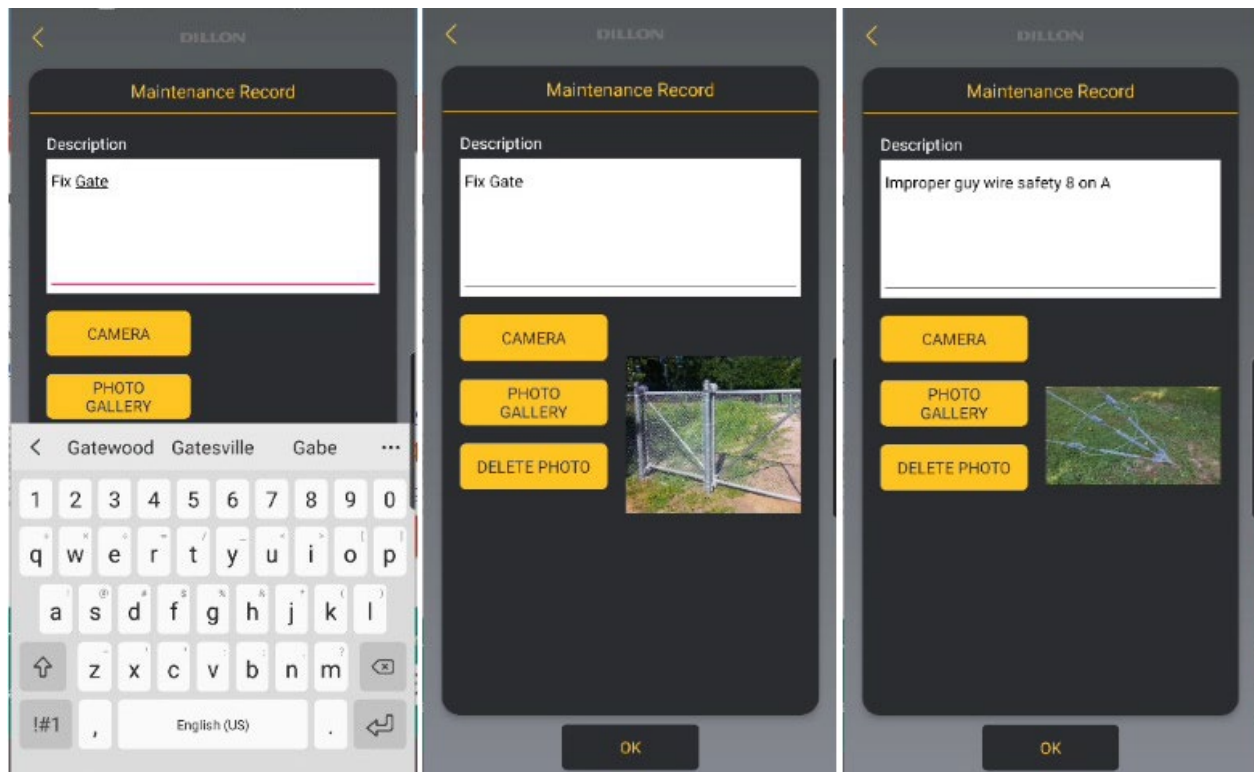
3. Tap the yellow **Menu Button** , then tap **Maintenance Log**



4. Tap **Add New Record**.



5. Enter the Maintenance Information into the Description box. You can also use the Camera and Photo Gallery button to add a single photo of the maintenance item. If additional photos are needed, just add additional maintenance records for those photos.
- **Camera** - this button pulls up the mobile device's camera application.
 - **Photo gallery** - this button pulls up the mobile device's photo gallery to search for a photo that has already been taken place.
 - **Delete Photo** - this removes the current photo so another can be taken in its place



6. Tap **OK** to save the Maintenance Record.

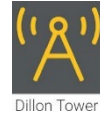
The screenshot shows a mobile application interface for 'DILLON'. At the top left is a yellow circular menu icon with three horizontal lines. The header 'DILLON' is centered at the top. Below the header is a section titled 'Maintenance Log'. Under this title, there are two fields: 'Site ID: Dillon-123456' and 'Site Name: Dillon Test Site'. Below these fields is a table with two rows of maintenance records. The first row has the text 'Fix Gate' and a yellow 'X' icon. The second row has the text 'Improper guy wire safety 8 on A' and a yellow 'X' icon. At the bottom of the screen is a yellow button labeled 'ADD NEW RECORD'.

Maintenance Log	
Site ID: Dillon-123456 Site Name: Dillon Test Site	
Fix Gate	X
Improper guy wire safety 8 on A	X

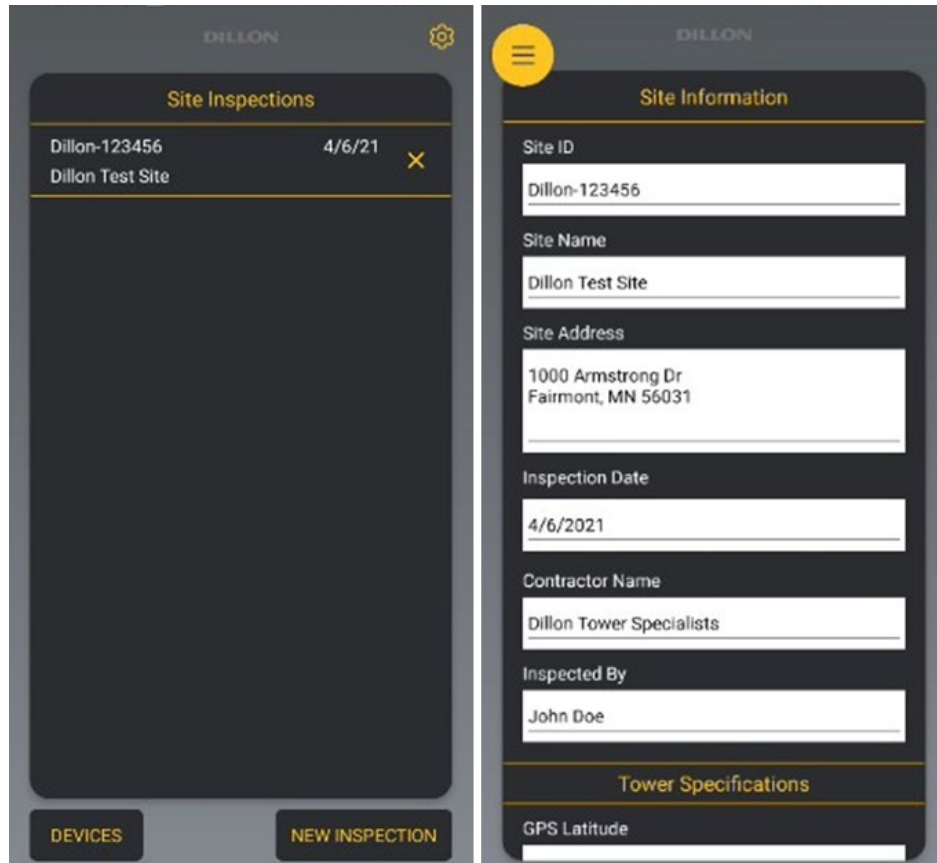
ADD NEW RECORD

9 Exporting the Site Inspection Report

1. Tap on the Dillon Tower icon on your Android or iOS mobile device:



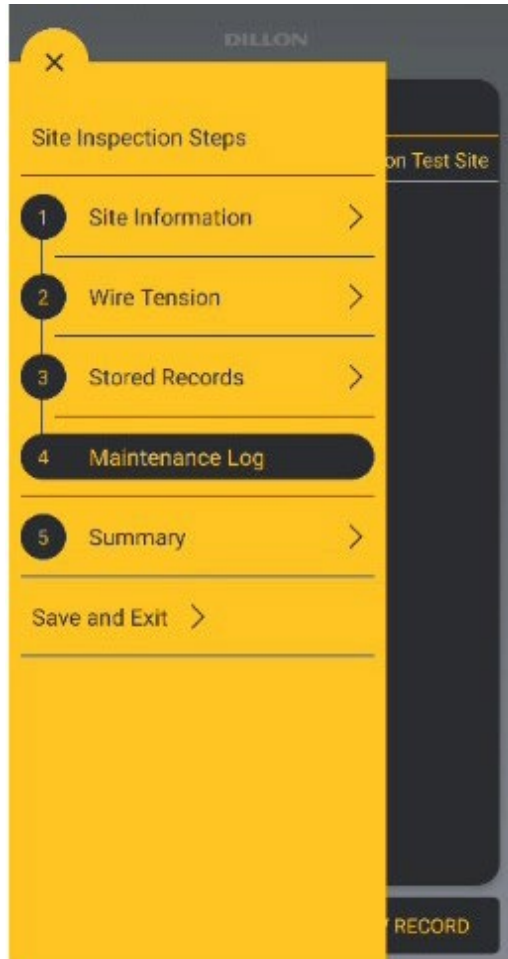
2. From the **Site Inspections** screen, select the Inspection you would like to export the report from.



The left screenshot shows the 'Site Inspections' screen. At the top, it says 'DILLON' and has a gear icon. Below the title 'Site Inspections', there is a list of inspections. The first inspection is 'Dillon-123456' with a date of '4/6/21' and a yellow 'X' icon. Below it is 'Dillon Test Site'. At the bottom, there are two buttons: 'DEVICES' and 'NEW INSPECTION'.

The right screenshot shows the 'Site Information' screen. At the top, it says 'DILLON' and has a yellow circle with three horizontal lines. Below the title 'Site Information', there are several fields: 'Site ID' (Dillon-123456), 'Site Name' (Dillon Test Site), 'Site Address' (1000 Armstrong Dr, Fairmont, MN 56031), 'Inspection Date' (4/6/2021), 'Contractor Name' (Dillon Tower Specialists), and 'Inspected By' (John Doe). Below these fields is a section titled 'Tower Specifications' with a 'GPS Latitude' field.

3. Tap the yellow **Menu Button** , then tap **Summary**.



DILLON

Force Measurement Equipment

4. A preview of the Report will be shown on the screen. The preview is pan-able to enable the user to see the full report.

DILLON

Summary

Dillon Test S

Site ID	Dillon-12345
Site Name	Dillon Test S
Site Address	1000 Armstr
Contractor Name	Dillon Tower
Inspected By	John Doe
Inspection Date	4/6/2021 3:
Wind Speed	4.61 mph
Wind Direction	ESE

TOWE

Tower Manufacturer Name	ABC inc.
Tower Type	25 Series Gu
Tower Structure Height	450 ft
Face Width	3.145 ft
GPS Latitude	43.6522
GPS Longitude	-94.4611

EXPORT AS PDF

EXPORT DATA FOR EXCEL

DILLON

Summary

Dillon-123456
Dillon Test Site
1000 Armstrong Dr Fairmont, MN 56031
Dillon Tower Specialists
John Doe
4/6/2021 3:24:37 PM
4.61 mph
ESE

TOWER SPECIFICATIONS

ABC inc.
25 Series Guyed
450 ft
3.145 ft
43.6522
-94.4611

DILLON QUICK CHECK-T

Dillon-107134

EXPORT AS PDF

EXPORT DATA FOR EXCEL

DILLON

Summary

07134
0000
/1/0001 12:00:00 AM
True

GUY TENSION MEASUREMENTS

	GPS Latitude
	GPS Longitude

Type	Size	Temp	Pre Tn	Min
EHS	1/2' 1-7	73 °F	2400 lbf	lbf

ANCHOR AND GUY LEVEL IMAGES

Anchor A Guy Level 1

DILLON

Wind Tension

Client Name: Quick Check T

Capacity: 10000 lbf

SM: 107134

4/6/21 3:45 PM

Serial: Dillon 1234

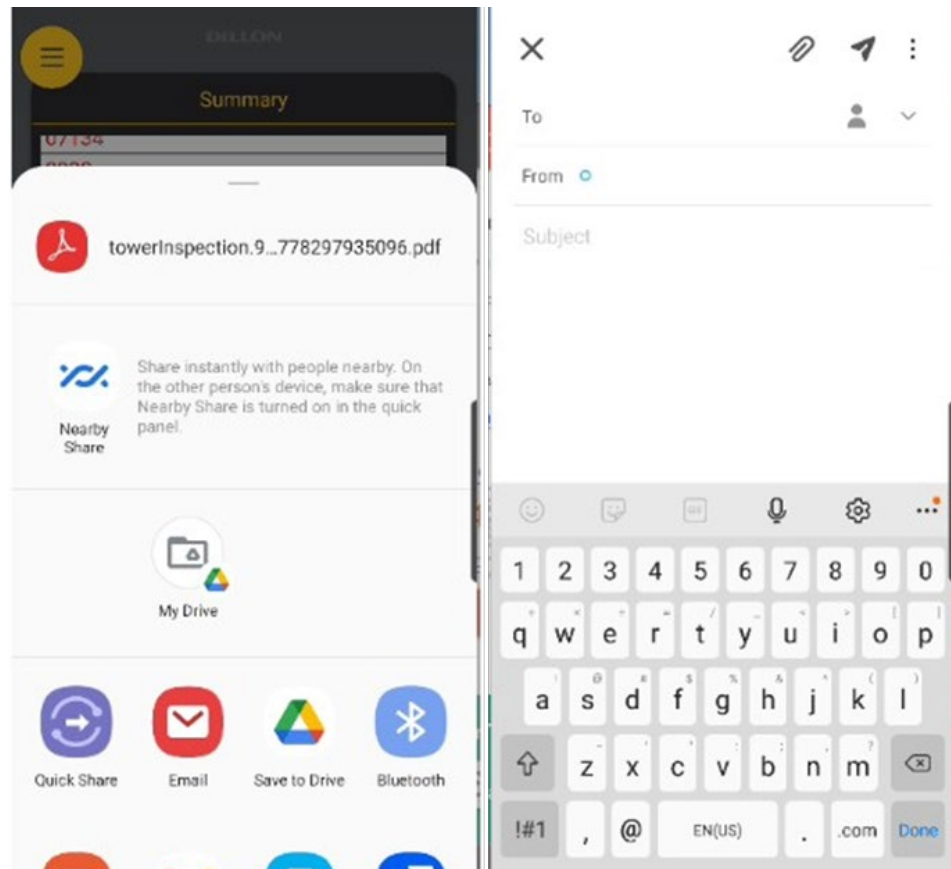
Unit Name: 1071340001

Unit ID: 123456

EXPORT AS PDF

EXPORT DATA FOR EXCEL

5. Tap the **Export Data as PDF** button. This brings up the sharing options that are available on the mobile device.
 - Tap **Email** to send the Site Report via email.
 - Tap **Save to Drive** to save the Site Report to your Google Drive account (This can be used if the size of the PDF is too large to email).



DILLON

Force Measurement Equipment

The exported PDF contains all the Site Information, Wire Pretension "initial" (Pre Tn) and Post Tension (Post Tn) readings, Guy Wire photos & screenshots, and the Maintenance items and photos.

Dillon Test Site (Dillon-123456)

Site ID	Dillon-123456	DILLON
Site Name	Dillon Test Site	
Site Address	1000 Armstrong Dr Fairmont, MN 56031	
Contractor Name	Dillon Tower Specialists	
Inspected By	John Doe	
Inspection Date	4/6/2021 3:24:37 PM	
Wind Speed	4.61 mph	
Wind Direction	ESE	

TOWER SPECIFICATIONS	
Tower Manufacturer Name	ABC inc.
Tower Type	25 Series Guyed
Tower Structure Height	450 ft
Face Width	3.145 ft
GPS Latitude	43.6522
GPS Longitude	-94.4611

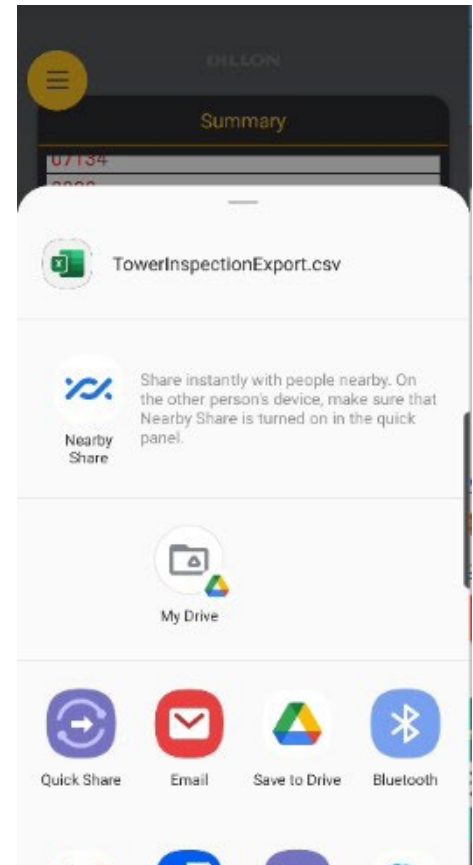
DILLON QUICK CHECK-T	
Dillon Device Name	Dillon-107134
Serial#	107134
Capacity	10000
Cal Due	1/1/0001 12:00:00 AM
Cal Check	True

GUY TENSION MEASUREMENTS											
Anchor (Leg)		A				GPS Latitude		44.112793			
						GPS Longitude		-94.234278			
Guy Level	Elev.	Radius	Drop-Rise	Type	Size	Temp	Pre Tn	Min	Max	Post Tn	
1	150 ft	650 ft	0 ft	EHS	1/2" 1-7	73 °F	2400 lbf	lbf	lbf	2500 lbf	

DILLON

Force Measurement Equipment

6. Tap the **Export Data For Excel** button. This brings up the sharing options that are available on the mobile device.
 - Tap **Email** to send the Site Report via email.
 - Tap **Save to Drive** to save the Site Report to your Google Drive account



The exported file is a CSV (Comma-Separate Vales) file that can be imported into a spreadsheet program like Microsoft Excel. The file contains all the Site Information, Wire Pre Tension (Pre Tn) and Post Tension (Post Tn) readings, and text descriptions of the Maintenance Log.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	SITE INFORMATION													
2	Site ID	Dillon-123456												
3	Site Name	Dillon Test Site												
4	Site Address	1000 Armstrong Dr												
5	Contractor Name	Fairmont, MN 56031												
6	Inspector Name	Dillon Tower Specialists												
7	Inspected By	John Doe												
8	Inspection Date	4/6/2021 15:34												
9	Wind Speed	4.61 mph												
10	Wind Direction	ESE												
11	TOWER SPECIFICATIONS													
12	Tower Manufacturer Name	ABC inc.												
13	Tower Type	25 Series Guyed												
14	Tower Structure Height	450 ft												
15	Face Width	3.145 ft												
16	GPS Latitude	43.6522												
17	GPS Longitude	-94.4611												
18	DILLON QUICK CHECK-T													
19	Dillon Device Name	Dillon-107134												
20	Serial#	107134												
21	Capacity	10000												
22	Cal Due	1/1/0001 12:00:00 AM												
23	Cal Rod	TRUE												
24	GUY TENSION MEASUREMENTS													
25														
26	Anchor (Leg)	GPS Latitude	GPS Long	Guy Level	Elevation	Guy Radius	Guy Drop	Wire Type	Size	Temperat	Pre Tn	Min	Max	Post Tn
27	A	44.112793	-94.2343	1	150 ft	650 ft	0 ft	EHS	1/2" 1-7	73 F	2400			2500
28														
29														
30														
31														
32														
33	MAINTENANCE LOG													
34	Fix Gate													
35	Improper guy wire safety B on A													
36														