Figure 3: Setting in Measuring a Tower Load. A tower load is measured by temporarily attaching a load cell to the tower and measuring the weight. This method is used to determine the tower's strength and to ensure it is safe for operation. The load cell is placed at a specific location on the tower, and the weight is measured using a digital scale. The data is then analyzed to determine the tower's load capacity and to ensure it is within safety limits. This process is repeated at various locations on the tower to ensure it is structurally sound and capable of supporting the intended loads.
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| **402 E. Yanonali Street**  
| **AM Radio Station Monopole and Transmission Facilities**

| Front view of transmitter building housing 3 AM radio stations transmitters and combiner for use of single tower | Left side view of compound behind transmitter building showing monopole tower. Equipment in foreground belongs to the city’s Public Works Department |
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View of the upper portion of the tower. The top 128’ will be removed and 4 x 12” “top hat whiskers” attached horizontally at top to correct impedance at reduced height. The whisker poles at 3” square hollow tubes.

View of tower’s three legged concrete base. Base is reinforced with rebar and the entire structure is attached to 3 x 70’ steel pilings driven into the ground.
View of the top of the KOSJ 1490 AM transmitter cabinets showing cabling conduits leading to “triplexer” combiner in the back. All three AM stations have connecting cables to this “triplexer”.

View of the “triplexer” cabinets that serve to combine the transmissions of all three AM radio stations. The equipment in these cabinets will undergo significant modification to allow for the changes in the overall tower height.
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View of the combined transmission line leading from the “triplexer” through the portal.

View of the combined transmission line leading from portal up to the connecting three “slant lines”. These slant lines are critical to the proper tuning of each station. Tower height is critical to wavelength of AM radio frequencies. The shorter tower will be electronically “lengthened” utilizing the “top hat whiskers”
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View of the transmitter cabinets and related equipment for KZSB 1290 AM owned by Santa Barbara Broadcasting, Inc (News Press), second of three AM stations using facility.

View of the KCLU 1340 AM transmitter cabinets and related equipment owned by California Lutheran University.