During trial cruise of the USS IOWA (BB 61) tests were made of the mechanism that keeps the engines running. I/O control panel for turbo generators. Gong sounds when oil pressure becomes too low in engine or generator, or when cooling water becomes overheated.
During trial cruise of the USS IOWA (BB 61) tests were made of the mechanism that keeps the engines running. Main Bench Board (Electrical) in Distribution Room of Engine Room One.
During trial cruise of the USS IOWA (BB 61) tests were made of the mechanism that keeps the engines running.

Main reduction gear.
During trial cruise of the USS IOWA (BB 61) tests were made of the mechanism that keeps the engines running. Main air ejector, which removes air from condenser. Vacuum is lost if air gets into condenser.
During trial cruise of the USS IOWA (BB 61) tests were made of the mechanism that keeps the engines running.

De-Humidifier, whose function is to remove moisture from oil.
During trial cruise of the PT-109 (AD-17) tests were made of the mechanism that keeps the engines running. A 1250 KW. propeller turbo generator. There are eight on the ship.
During trial cruise of the USS IOWA (BB 61) tests were made of the mechanism that keeps the engines running.

Main oil circulator, which circulates oil through bearings in reduction gear and main engine.
During trial cruise of the USS Iowa (BB 61) tests were made of the mechanism that keeps the engines running.

Power distribution panel in Engine Room One.
During trial cruise of the USS IOWA (BB 61) tests were made of the mechanism that keeps the engines running.

Central Control Board in Engine Room 3. Dials and gauges on this board show what all engines are doing at all times.
During trial cruise of the USS IOWA (BB 61) tests were made of the mechanism that keeps the engines running.

Throttle gauge board of Engine One in Engine Room One. Speed of engine is regulated by turning wheels, large one for ahead, small one for astern.
During trial cruise of the USS IOWA (BB 61) tests were made of the mechanism that keeps the engines running.

Main condenser circulator. This takes in sea water and puts it through main condenser. Then another pump discharges it into the sea again after it has been used to cool steam to convert steam back to water. At high speed, ship scoops up water without aid of intake pump.
During trial cruise of the USS Iowa (BB-61) tests were made of the mechanism that keeps the engines running.

Giant oil burner deep in the ship. An average temperature of between 650-825 is maintained, working up a steam pressure of about 600 pounds in each boiler. Boilers in each engine room can operate independently or jointly. Thus, if all but one boiler is disabled, ship can maintain its progress.
Powder scuttles in the powder handling room on board the USS IOWA (BB 61).

Powder bag being lifted from scuttle, prior to being placed on hoist.
Powder scuttles in the powder handling room on board the USS TOWA (BB 31).
Interior of turret No. 1 beneath center 16" gun on USS TOWA (BB 31) now on trial run.

Breach of gun, showing tray in position for loading.
Interior of turret No. 1 beneath center 16" gun on USS IOWA (BB 61) now on trial run.

Men at firing stations.
Interior of turret No. 1 beneath center 16" gun on USS IOWA (BB 61) now on trial run.

Looking toward breech of gun.
Interior of turret No. 1 beneath center 16" gun on USS IOWA (BB 61) now on trial run.

Tray in position for firing.
Range finder for main battery 16" gun turret No. 3 of USS IOWA (BB 61).
Inside view.
16" shells in shell room, turret No. 1 on USS Iowa (BB 61).
Officers of the USS IOWA (BB 61) on board during her trial run.

Comdr. M.A. Norcross, (SC)
USN, Ship's Supply Officer.
Huge anchor chains as seen from eyes of the USS IOWA (BB 61) now on her trial run.
Marine 40 mm gun crew on board USS IOWA (BB 61) at their battle stations during trial run.

Part of starboard 40 mm battery.
20 mm anti-aircraft gun crew on board USS IOWA (BB 61) at battle stations for target practice during trial run.

Secondary battery also engaged in drill.

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SUBJECT: 3 in. anti-aircraft gun crew on board USS IOWA (BB 61) at battle stations for target practice during trial run.

Starting their firing tests.
Marine 40 mm gun crew on board USS IOWA (BB 61) at their battle stations during trial run.

Checking their guns.
Turrets of main batteries swinging about to test maneuverability of 16" guns on board the USS IOWA (BB 61) during her trial run.

Turrets Nos. 1 and 2.
SUBJECT:
Turrets of main batteries swing about to test maneuverability of 16" guns on board the USS IOWA (BB 61) during her trial run.

Turrets Nos. 1 and 2.
20 mm anti-aircraft gun crew on board USS IOWA (BB 61) at battle stations for target practice during trial run.

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Inspection by Capt. John L. McCrae, USN, on board the USS IOWA (BB 61) during her trial run.
Part of crew muster in forward deck.
Furrets of main batteries swing about to test maneuverability of 16" guns on board the USS IOWA (BB 61) during her trial run.

Guns extend over side of ship as they are trained at 90° angle.
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Firing tests.
Forward deck view.

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Inspection by Capt. John L. McCrea, USN, on board the USS IOWA (BB 61) during her trial run.

Part of crew muster on after deck.
Officers of the USS IOWA (BB 61) on board during her trial run.
Capt. John L. McCrae, USN, C.O., on the bridge of the conning tower.
Swabbing the after deck on board the USS IOWA (BB 61) during her trial run.
View of after stack on USS IOWA (BB-61) showing powerful searchlights.
SOUTH PACIFIC
13 May 1944

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Marine 40 mm gun crew on board USS IOWA (BB 61) at their battle stations during trial run.

A battery with fire control station in foreground.

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Turrets of main batteries swing about to test maneuverability of 16" guns on board the USS IOWA (BB 61) during her trial run.

Guns of turret No. 3 viewed from an impressive angle.

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Marine 40 mm gun crew on board USS IOWA (BB 61) at their battle stations during trial run.