

ATOMIC FACTORIES.
RISLEY - CAPENHURST - SPRINGFIELD.
WINDSCALE.

54-27

CAMERA MAN: W. JORDAN.

ROLL 1. (Newman)

RISLEY: (Industrial Group Headquarters)

13.

- M/S. Sir Christopher Hinton in his office (Managing Director of Group)
- C/U. Sir Christopher Hinton.
- C/U. Model of Calder works Sellafield. (New Atomic power station being built)
- C/V. Thermal reactor design office showing draughtsmen at work.
- M/S. Draughtsmen at work.
- C/U. " " "

CAPENHURST: (Uranium 235 factory)

ROLL 1 Continued.

9. 11

- G/V. Main electrical control-room. Has an input of 132,000 Volts transformed down to 11,000 volts power required to operate plant. This is equivalent to that used by a medium size town.

10 12

- M/S and C/U. Operators at work.

41, 42,

- G/V. Spectrographic Laboratory used for identifying dangerous or unknown impurities. Foreground operator on diffraction grating spectrograph and prism spectrograph in background.

- C/U. Operator on diffraction spectrograph.

ROLL 2. (Newman)

- C/U. Disignation on pocket (M.O.S. Atomic Research)

- C/U. Danger sign on Lab.

- L/S. Through door of physics Lab danger sign in foreground.

- M/S. Operator on automatic pen recorder Pan to operator on Low Temperature high efficiency fractionating column (-140 degrees centigrade to approximately room temperature) Use for separating highly reactive impurities

- C/U. On each operator.

37,
38,

39, 40

ROLL 2 (Eyemo)

15

L/S. Truck conveying drums full of Uranium ore and C/U's of unloading same.

ROLL 3 (Eyemo)

18, 19,

L/s. Hoisting drum of Uranium into crusher.

20, 21,

and M/S. Operator at top of crusher.

16 17

L/S. &

M/S. Taking samples of crushed ore for testing Uranium content.

M/S. Electricians and cameraman at work in dryway plant in protective clothing.

ROLL 4- (Eyemo)

14

L/S. Exterior of Crushing plant.

5 & 6

L/S. Workers walking down the road of Springfield's works.

C/U. Board at main gate at Springfield's works.

M/S &

L/S. of main gate. Springfield works.

32,

G/V. Interior of crude oxide extraction plant. Pan from Uranium liquid tank to operators below.

33, 34, 35, 36

M/S. &

C/U's. Operators working on filter presser filtering off Uranium cake.

ROLL 5 (Eyemo)

L/s &

53, 54,

C/U. Change room showing hand and foot monitors in use by separation group personal.

55, 56,

C/U. Changing hands from Beta-Gamma check to Alpha check.

57,

M/S. Operator with MOS Atomic energy on back of sweater at Monitor.

3 & 4.

L/S. Main gates of Windscale works. Policeman checking in car.

WINDSCALE WORKS.

ROLL 4 (Newman)

1 L/S. Windscale works showing two atomic piles and separator plant in centre.

2.7.48 Various L/S's: Exterior of Windscale works.

58, 59, 60, 61. L/S. Calder Atomic power station in process of erection. ~~XXXX~~ Partly completed Reactor house in foreground.

L/S's. Workmen at work on Reactor House.

L/S's. Atomic stack piles.

W/S. Cooling pond where slugs are cooled from Radio-activity after passing through Atomic piles. Pan up to stack.

L/S's. Workers walking from Separation plant to changing room.

43,



ROLL 1 (Eyemo) RISLEY.

M/s &

C/U. Sir Christopher Hinton at office desk .

C/U. Model of Calder works, Sellafield.

L/S. Exterior of Ether purification plant at Springfield works. Use for removing the remaining impurities by an operation called Solvent Extraction. The solvent being Ether.

M/S. Operator walking along in protective clothing.

M/S. Truck going into bottle filling plant.

ROLL 2 (Eyemo)

M/S. Truck coming into plant from inside.

C/U. Operator working on cylinder prior to hoisting into filling cabinet.

C/U. Operator with gas-mask and protective clothing filling cylinders with Hydrochloric acid.

b-88F201

SPRINGFIELD: ROLL 2 Continued.

25, 27,
31,

L/s. Dryway plant used for converting Ammonium diuranate to Uranium Tetrafluoride. Operators lifting reactor from furnace and placing in stillage.

22, 24,

C/U &

M/S. Operators at work. (All personal ^{and} in this plant must wear protective clothing)

ROLL 3 (Newman)

23, 26, 28,
29, 30,

C/U. Operator working on reactor.

L/s &

C/U. Checking cameraman and camera for radio activity in sub changing room after leaving dryway plant.

L/s &

44, 46, 48
45, 47,

C/U. Operators in sub changing room removing gloves and washing hands.

C/U. Gloves going into bin.

M/S &

49, 50, 51, 52

C/E. Operators removing rubber boots and swinging over to non-contact side.