



MODULAR CRANE ARM & JIB ARM RISK ASSESSMENT

All Technicians must be aware who the Producer /Production Manager or Floor Manager is in the Studio and take direction from them.

Only fully trained and experienced Grips to be employed by the customer to swing and track modular crane arms and jib arms. If Panavision's Technician is dissatisfied he is to report to the Producer/Production Manager or Floor Manager.

Hazard Identified: Injury to all personnel by Crane swinging overhead in Studio

Severity: Medium

Likelihood: Low

At Risk: Audience, artists, members of staff

Precautions: Audience to be briefed before shows. attached to bottom of Cameraman must be positioned to have direct sight of crane. Grips to inform cameraman of safe swinging radius. Crane to be checked for any object left on the arm that could fall off.

Hazard Identified: Object falling from remote head i.e. Camera, Remote Focus, lens etc.

Severity: Medium

Likelihood: Low

At Risk: Contractors, Audience or anyone beneath head

Precautions: Technician to check safety cable is in place on remote head, through camera & lens - one of main checks on Operator's Checklist.

Hazard Identified: Removal or addition of weights, camera, remote head to unbalanced crane

Severity: High

Likelihood: Low

At Risk: All personnel around crane

Technician must supervise all adding or subtracting of weights or equipment and the unstrapping of the crane. **CRANES MUST NEVER BE UNSTRAPPED WITHOUT SUPERVISION OF TECHNICIAN.** All crane balancing to be performed with the tilt brake off. No weights or equipment to be removed with the tilt brake on.

Hazard Identified: Dropping of weights.

Severity: Medium

Likelihood: Low

At Risk: Technician, grips & riggers

Precautions: Wear steel capped protective boots/shoes. Ensure that the crane base and/or arm is secure before lifting weights or the camera onto or off it. Take care if there are any special risks such as low light levels, uneven surfaces or unfamiliar environments.

Hazard Identified: Bad lifting of all equipment

Severity: Low

Likelihood: Low

At Risk: Technician, grips & riggers

Precautions: Lift with knees bent and back straight. Three people must work together rigging and de-rigging cranes. Use mechanical aids wherever possible. Operators to wear steel capped protective shoes.

Hazard Identified: Remote head falling whilst loading onto crane.

Severity: Medium

Likelihood: Low

At Risk: Technician & grips

Precautions: Technician must ensure two people carry out this task.

Hazard Identified: Contact with overhead lights or wires.

Severity: Medium

Likelihood: Low

At risk: Artists, Technician, grips crew

Precautions: All crew to be aware of any overhead danger. Cranes not to be used in a location where there are overhead cables low enough to be touched by crane. Cranes not to be used below overhead high voltage electricity wires

Hazard Identified: Trip hazard on cables

Severity: Low

Likelihood: Low

At Risk: Production crew & artists

Precautions: Ensure cable runs are neat and lie flat. Cloak cables where possible. Ensure crane does not run over cables. All personnel should be made aware of risk.

Hazard Identified: Movement of arm if crane unattended.

Severity: Medium

Likelihood: Low

Precautions: Technician must ensure that the retaining straps are in place when the arm is in an unbalanced state, during breaks and overnight. The Technician must ensure that the arm is secured when left unattended and switch off every power source. The remote head must be powered down or the controls disabled when not in operational use. The wheel base must be jacked to hold it in position when unattended.

Hazard Identified: Movement of crane on slope or uneven ground

Severity: Low

Likelihood: Low

At Risk, Production crew & artists

Precautions: Crane not to be moved prior to correct balancing of the crane. Grips to be aware of position of the arm and changes in the arm length which is compensated by movement of the counterbalance weights. Grips must ascertain that their path is clear before starting a move, especially when pulling the crane. Sufficient manpower will need to be in attendance when moving crane/dolly on slopes.

Dependant on circumstances, i.e. side inclination of ground, weights should be removed prior to movement of crane.

Hazard Identified: Mishandling of crane on track.

Severity: Medium

Likelihood: Low

At Risk: Production crew, artists and visitors

Precaution: **Cranes are not to be used on circular track.** Where possible, the crane should be rolled onto track using run ups. Grips to make sure there is no debris on the track. Grips must be aware of where the track ends. Care must be taken when carrying foldable track as there is a risk of trapping fingers. The dolly and arm must be reduced to their lightest state when being lifted onto or off track and an adequate number of people should be employed to safely complete this operation. Arm to be balanced before going on track.