

1 Purpose	To outline the requirements for safely working over water.
2 Application	Applies to all NTPC employees and contractors required to work over water.
3 Definitions	<p>Personal flotation devices (PFD) An approved device capable of keeping a worker's head above water without effort by the worker, and designed to protect a worker against hypothermia.</p> <p>Lifebuoy A lifesaving buoy designed to be thrown to a person in the water to provide buoyancy and prevent drowning.</p>
4 References	<ul style="list-style-type: none"> • NWT Occupational Health & Safety Regulations 2015 • NWT Code of Practice: Fall Protection PPE • Health & Safety Management System Element 14.08: Fall Protection • CSA Standard Z259 series of standards: Fall Protection • SWP 4.12: Personal Flotation Devices • SWP 5.01: Working at Heights • SWP 5.05: Body Belts, Harnesses, and Lanyards
5 Equipment	<ul style="list-style-type: none"> • Boat • Lifebuoy
6 PPE	<ul style="list-style-type: none"> • Canadian-approved personal flotation device • Fall protection equipment (e.g., harness, lanyard, shock absorber, body belt)
7 Training	<ul style="list-style-type: none"> • Fall protection
8 Work Practice	<p>Introduction Working over or near water involves several hazards in addition to those related to working at heights.</p> <p>Work Planning</p> <ul style="list-style-type: none"> • Hazards associated with working over or near water include: <ul style="list-style-type: none"> ○ Falling into the water and drowning. ○ Inadequate lighting and poor visibility. ○ Wet or icy weather. ○ Being swept away by fast moving water and being

	<p>injured or drowning.</p> <ul style="list-style-type: none"> ○ Falling into the water with electrical equipment and suffering electric shock. ○ Falling into cold water in cold conditions and suffering hypothermia. ● Appropriate controls shall be used to prevent workers from falling into the water, such as fall protection systems. ● Adequate water rescue measures shall be available for those working over or near water, including workers competent to perform a rescue. <p>Equipment</p> <ul style="list-style-type: none"> ● Workers conducting work where there is no guardrail and they could fall into water shall: <ul style="list-style-type: none"> ○ Wear a personal flotation device (see <i>SWP 4.12: Personal Flotation Devices</i>); or ○ Wear a full body harness and lifeline. ● Suitable rescue equipment shall be available at the worksite, and may include: <ul style="list-style-type: none"> ○ A suitable boat equipped with a boat hook. ○ A lifebuoy attached to a nylon rope that is not less than 9 mm in diameter and not less than 15 m long. ○ A sufficient number of properly equipped and trained workers to implement rescue procedures. <p>Intake Structures, Head Gates, Spillways, and Tailraces</p> <ul style="list-style-type: none"> ● Appropriate signs shall be placed around intake structures, head gates, spillways, and tailraces. ● No fishing or boating is permitted within 5 m of intakes when in operation. ● Water safety equipment (life buoys and personal flotation devices) shall be permanently stored adjacent to all reservoirs, intakes, and tailraces. ● When working in the vicinity of intake structures, head gates, spillways, or tailraces workers shall wear safety harnesses and personal flotation devices. ● Intake structures, head gates, and tailrace areas shall be well lit.
9 Documentation	<ul style="list-style-type: none"> ● Nil



Safe Work Practice: Working Over Water	Page 3 of 3
	Monitor: Director, Health, Safety & Environment

SWP #:
5.03

Development		
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Approved by: E. Smith	Director, Health, Safety & Environment	Sep. 12, 2016

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