



## Site Operating Conditions

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**1.0 PURPOSE**

This procedure is applicable to all contractor personnel entering the site. This document outlines the Safety, Health and Environment requirements for working at the Tiwest Kwinana Pigment Plant and should be read in conjunction with the referenced documentation.

**2.0 REFERENCES**

- TJV023 Corporate Health and Safety Policy
- TJV011 Corporate Environment Policy
- TJV088 Corporate Equal Opportunity Policy
- TJV139 Corporate Equal Opportunity Procedure
- TJV092 Corporate Fitness for Work Policy
- TJV199 Corporate Safety, Health and Environment (SHE) Management Standards
- TJV204 Corporate Safety Performance Standards
- TJV203 Corporate Environmental Performance Standards
- TP-SFTY-001 Emergency Response Plan
- TP-SFTY-003 Site Access and Induction Procedure
- TP-SFTY-004 Chemical Substances Management
- TP-SFTY-011 Incident Reporting and Investigation
- TP-SFTY-016 Job Safety Analysis
- TP-SFTY-017 Contractor Safety Management
- TP-SFTY-024 Barricading
- TP-SFTY-022 Traffic Management Plan
- TP-SFTY-026 Confined Space Entry
- TP-PROD-017 Isolation and Work Permit
- TP-ENV-021 Waste Disposal
- TP-ENG-114 Electrical Manual
- TBA Work at Heights
- TBA Crane Operation and Lifting
- P4.00.01 Energy Isolation Lockout and Tagging
- P2.06.06 Response to Chemical Spills
- NOHSC:1006 National Occupational Health and Safety Certification Standard for Users and Operators of Industrial Equipment  
Occupational Health and Safety Act 1984  
Occupational Health and Safety Regulations 1996  
Environmental Protection (Noise) Regulations 1997

**2.1 Australian Standards**

- AS 1269 Occupational noise management - Overview and general requirements
- AS 1270 Acoustics - Hearing protectors
- AS 1336 Recommended practices for occupational eye protection
- AS 1337 Eye protectors for industrial applications

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AS 1338.1	Filters for eye protectors against radiation in welding and allied operations
AS 1418	Cranes, Hoists & Winches
AS 1576	Parts 1 to 5 Scaffolding
AS 1801	Occupational protective helmets
AS 1891	Industrial fall arrest systems and devices
AS 2210	Occupational protective footwear - Guide to selection, care and use
AS 2554	Hose and hose assemblies for air
AS 2865	Safe working in a confined space
AS 3000	Electrical installations (known as the Australian/New Zealand Wiring Rules)
AS 3007	Electrical installations - Surface mines and associated processing plant
AS 3012	Electrical installations - Construction and demolition sites
AS 4332	The Storage and handling of gases in cylinders
AS 4576	Guidelines for Scaffolding

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### 3.0 RESPONSIBILITY

#### 3.1 Tiwest Work Supervisor

- To ensure understanding of all requirements contained in this procedure with contracted personnel;
- To review contractor performance in line with this procedure;
- To ensure issues related to implementation of these requirements is communicated with contractor personnel, safety and health group, environmental group or contracts department as required; and
- Apply requirements as identified in Contractor Safety Management (TP-SFTY-017).

#### 3.2 Task Coordinator

- Provide support to Works Supervisor by providing onsite supervision of Contractor personnel.

#### 3.3 Group Leader Health and Safety (GLHS)

- Ensure requirements contained within this procedure are up to date; and
- Ensure changes to this procedure are communicated to all affected personnel.

#### 3.4 Contractor Company Supervisor

- Ensure requirements contained within this procedure are communicated to all personnel;
- Ensure personnel are familiar and comply with all requirements of this procedure;
- Raise issues related to compliance to this procedure with their nominated Work Supervisor or Task Coordinator; and
- Ensure changes to this procedure are communicated to all affected personnel.

### 4.0 INTRODUCTION

Tiwest Joint Venture and its operations manager Tiwest Pty Ltd is committed to excellence in its safety, health and environmental performance through the continuous improvement of its safety, health and environmental (SHE) management systems.

Our policy is that safety, health and environment will be actively managed and effectively integrated with operational planning.

This means that maximum protection of people, equipment and the environment will be provided with minimum disruption to our business, through effective risk identification, control, monitoring systems, and preventative initiatives. Annual audits and review of the safety and environmental management system will be conducted utilising an accredited audit tool.

Tiwest recognises that its Employees, owner Participants, Customers, Suppliers and the Communities in which it operates, need confidence in Tiwest's ability to achieve safety and environmental excellence through the efforts of all employees.

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## 5.0 SAFETY, HEALTH AND ENVIRONMENT MANAGEMENT

### 5.1 Policy, Leadership and Commitment

#### 5.1.1 Safety & Environmental Policy

The purpose of this section is to highlight that Tiwest senior management and site line management demonstrate a visible and proactive commitment to safety, health and environment. This is demonstrated through the maintenance of Corporate Policies that clearly define Corporate SHE objectives and the implementation of site based SHE management systems to ensure these objectives are achieved.

An effective SHE management system is maintained at the Tiwest Kwinana site to enable it to meet the requirements of the Corporate SHE Management Standards. This system comprises of management procedures and associated documents (e.g. forms, templates, data-bases etc).

#### 5.1.2 Applicable Documentation:

TJV023	Corporate Health and Safety Policy
TJV011	Corporate Environment Policy
TJV199	Corporate SHE Management Standards

### 5.2 Risk and Opportunity Management

#### 5.2.1 Take 2

The Take 2 is a personal risk assessment tool. The purpose of the Take 2 is to determine the specific hazards and controls in place immediately prior to commencement of a task. A Take 2 is required to be completed prior to commencement of any task on site.

#### 5.2.2 Job Safety Analysis

A Job Safety Analysis (JSA) is used to identify the hazards and manage the risks associated with non-routine tasks. As a minimum, JSA's shall be conducted prior to commencing any job which will not be managed by another procedure (SOP, etc) and where the risk after completing a Take-2 indicates the need for one.

They are to be used to analyse all high risk tasks and as such are required for all tasks involving potential contact with  $TiCl_4$ , Chlorine or steam

#### 5.2.3 Applicable Documentation:

TP-SFTY-016	Job Safety Analysis
TJV199	Corporate SHE Management Standards

### 5.3 Operational Control

#### 5.3.1 Permit to Work

All non-routine activities (except exempted tasks) within Tiwest Pigment Plant areas require the completion of a Work Permit. Subject to the work planned, a number of associated work permits may also be required, eg Master General Work permit, Confined Space permit, Hot Work permit etc.

Only persons trained and authorised may raise and issue permits.

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### 5.3.2 Personal Protective Equipment

Prior to gaining access to the Tiwest Kwinana site, if working in Operational Areas, the contractor shall supply as a minimum and ensure all personnel are instructed in the use of the below described personal protective equipment:

- Medium impact safety glasses fitted with approved side shields, including prescription glasses;
- High visibility clothing – long sleeved shirt or jacket, buttoned at the wrist and long trousers or overalls with long sleeves and legs. Approved wet weather gear as required;
- Steel capped safety footwear conforming to Australian Standards AS/NZS 2210;
- Non conductive safety helmets conforming to Australian Standards AS 1801;
- Monogoggles;
- Respirators appropriate to the task and exposure. Any known requirement for respirators shall be discussed with the Tiwest Work Supervisor;
- Hearing protection for use in areas where directed either verbally or in writing by Tiwest personnel or as indicated by signage or wherever a risk is deemed to exist;
- Approved hand protection when handling, rough or hot materials, corrosive or caustic materials or any other situation as required; and
- Full body harnesses where work at heights is undertaken.

Specific eye protection may be nominated for certain tasks where potential hazard to eyes is high. Consideration must be given to the task or type of work being performed. Proper goggles (conforming to Australian Standard AS/NZS 1337) or face shields (conforming to Australian Standard, AS 1336) must be worn when appropriate. Occasions where this specific eye protection is required includes, but is not limited to:

- Any work involving corrosive liquid, solids or dust, particularly when connecting or disconnecting lines;
- Pressure cleaning including plant water hosing;
- Compressed gases including air;
- All work involving lime or lime slurries;
- Welding or brazing AS/NZS 1338.1;
- Chipping, grinding or sealing operations;
- Jackhammer operation;
- Other occasions as directed either verbally by Tiwest personnel or as indicated by signage or wherever a risk is deemed to exist.

Personnel required to wear respiratory protection shall be clean shaven in the area where the mask seals onto the face of the wearer.

The Contractor shall ensure all personnel correctly use any items of safety equipment that are from time to time, provided by the Tiwest Kwinana site. Such items, which shall be returned to the Tiwest Kwinana site following use, may include:

- Safety harnesses which shall be worn where there is the possibility of a fall;
- Appropriate respiratory devices;
- Personal escape respirators.

The Contractor shall ensure personnel observe all Personal Protective Equipment signs.

A personal escape respirator shall be supplied by Tiwest at the Tiwest Kwinana site Security Gatehouse. The personal respirator shall be returned to the Tiwest Kwinana site Security

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Gatehouse each time personnel leave the Tiwest Kwinana site. Contractors may supply their personnel with escape respirators provided they meet the Tiwest Kwinana site requirements.

### 5.3.3 Supply of Protective and Safety Equipment

The Contractor shall provide all materials and equipment, including safety equipment, they will require to complete all items within the contracted scope of work and not specified as being provided by the Tiwest Kwinana site, either on loan or otherwise.

Contractors engaged on the Tiwest Kwinana site who do not have the necessary materials or equipment shall arrange for its provision through their own procurement systems. Use of Tiwest Kwinana site assets will be arranged in urgent or emergency situations only with the approval of the applicable Tiwest Kwinana site Superintendent or Department Head.

Contractors who have been engaged to work in any restricted area on the Tiwest Kwinana site that do not have the necessary personal protective equipment or safety equipment specified in the contract shall be refused access to the area until the equipment has been obtained.

The Tiwest Kwinana site shall not provide or replace the Contractor's equipment from its own assets.

Unless authorised by the applicable Tiwest Kwinana site Superintendent or Manager with advice to the Warehouse Supervisor and/or Tool Storeman, contractors shall not draw material from the Tiwest Kwinana site Warehouse. All approved material required by the contractor from the Tiwest Kwinana site shall be obtained through the Works Supervisor or Task Coordinator.

### 5.4 Site Access, Security and Induction

Contractors, when attending the Tiwest Kwinana site, shall report to the Security Guard at the Tiwest Kwinana site Security Gatehouse and obtain an identification card.

All Contractor personnel required to undertake work at the Tiwest Kwinana site shall first complete the Tiwest General Site induction.

No person may start work within the Tiwest Kwinana site without the authority of the relevant Tiwest Works Supervisor or Task Coordinator.

Personnel engaged in construction activities will require a current Safety Awareness training certificate (Blue Card or equivalent).

The following age limits apply to the site:

- Less than 17 years of age - confined to non plant areas under direct supervision, not to drive Forklifts, not to use lathes and limited use of hand power tools (eg angle grinder).
- Over 17 and up to 18 years of age - direct supervision in the Plant and work with non-hazardous materials.
- Over 18 after training and confirmation of skills and with the direct approval of the supervisor – allowed to work in the Plant

Without exception, personnel wishing to proceed past the Tiwest Kwinana site Security Gatehouse are under no circumstances to bring animals onto the Tiwest Kwinana site.

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#### 5.4.1 Photographs

No photographs of work in progress or any part of the facility shall be taken or used by the contractor, or his agents and subcontractors. All negatives and copies of any photographs taken with Tiwest's written permission shall be the property of Tiwest and shall be surrendered to Tiwest on request.

#### 5.5 Training and Competency

The Tiwest Kwinana site conducts regular induction courses designed to provide sufficient information to enable contractors to enter the Tiwest Kwinana site with an understanding of:

- The Tiwest group and its operations;
- The basic safety, environmental and training requirements expected; and
- Tiwest Kwinana site Emergency Response Procedures.

The Contractor shall ensure that all its personnel attending the site for induction are suitably attired in correct minimum Personal Protective Equipment.

The assessment of Contractors personnel as competent in elements of the Tiwest Kwinana site Induction shall not negate the responsibility of the Contractor to familiarise him/ herself with sufficient information to have an understanding of the content of those elements covered to ensure the work can be performed safely.

##### 5.5.1 General Site Induction

The general site induction is for all Tiwest Kwinana employees and contractors. The Tiwest Kwinana site induction is valid for 1 year where contract personnel only undertake the site induction. Where the site induction is followed by the two area inductions, the induction can remain valid for 3 years.

For a contractor who is required to undertake works within the operational plant and who has not been on site within the past six (6) month period will be required to complete the general site induction.

Two hours will be allowed for the induction to include breaks, questions and for the assessment. Isolation and Lockout as well as Full Face Respirator training is available following this induction for those who require it.

##### 5.5.2 Visitors Induction

If an employee or Contractor has a visitor to site, the site access form (available on the intranet) must be completed and forwarded to the Gatehouse. This induction takes 8 minutes and is valid for 90 days for visitors and 6 months for couriers.

Visitors who have completed the induction must sign into the visitors book and be given a visitors card, which they must carry with them whilst they are on site.

##### 5.5.3 Applicable Documentation

TP-SFTY-003 Pigment Plant Access and Induction Procedure  
TJV199 Corporate SHE Management Standards

#### 5.6 Crisis and Emergency Management

An Emergency Response Plan is in place at the Tiwest Kwinana site. The Contractor shall ensure that its personnel are familiar and comply with all Tiwest Emergency Response procedures. All contractors are to familiarise themselves with the location of refuge areas.

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A system of red indicator lights is maintained at the Tiwest Kwinana site Security Guard House. The lights are tagged to correspond with the various operational areas of the plant. When the indicator lights are on this denotes that a Level 1 release is in progress at the corresponding area. If this is the case, personnel may gain access to the Tiwest Kwinana site, however they must not under any circumstances enter the area where the Level 1 release has occurred until the all clear has been announced.

In the situation where a Level 2 or Level 3 release has been called, the Security Guard will restrict access to the Tiwest Kwinana site by closing the front security gates indicating an emergency is in progress. Once this has occurred access to the Tiwest Kwinana site will only be granted to emergency services personnel.

#### 5.6.1 Applicable Documentation:

TP-SFTY-001 Emergency Response Plan  
TJV199 Corporate SHE Management Standards

### 5.7 Contractor Selection and Management

#### 5.7.1 Contractor Management

The Contractor is required to take part in the contractor selection process. The successful Contractor will be responsible for:

- Demonstrating a high level of commitment to safety health and environment;
- Implementation of agreed SHE systems and plans;
- Actively managing their employees and sub-contractors SHE performance;
- Maintaining records of their employees and sub-contractors skills / training;
- Working with Tiwest to address any unforeseen SHE hazards or issues; and
- Providing a monthly Safety Performance report (number of safety meetings, JSA's completed, incidents, hours worked on site etc.).

#### 5.7.2 Control of Contractors Personnel

The Contractor shall comply with any and all directions that are, from time to time, issued by Tiwest or its representative(s).

The Contractor shall be responsible for the proper conduct of its personnel while on the Tiwest Kwinana site and shall ensure that all its employees are aware that the following are strictly prohibited:

- Possession or consumption of intoxicating liquor;
- Possession or use of drugs, other than as prescribed by a medical practitioner;
- Possession or use of unauthorised fire-arms;
- Gambling, horse-play or fighting;
- Abuse, theft or destruction of Tiwest's or other contractors' property or personnel;
- Introduction of exotic fauna and flora;
- Open fires; or
- Unwelcome displays of publications, photographs, drawings, movies or material of any type of an erotic or sexual nature.

Tiwest may direct the Contractor to remove personnel from the Tiwest Kwinana site for breaches of any of the above.

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### 5.7.3 Applicable Documentation

TP-SFTY-017 Contractor Safety Management  
TJV199 Corporate SHE Management Standards

### 5.8 Incident Management

#### 5.8.1 Incident / Accident Reporting

The contractor shall bring to the attention of the Tiwest Work Supervisor all reportable incidents which will, or may, constitute an incident or hazard to the safety of persons, equipment, property or the environment, using the Tiwest Pigment Plant Incident Report form (TP 0979). Incident Report forms are available from the Tiwest Work Supervisor or Task Coordinator.

Reportable incidents include:

- Injuries;
- Gas emissions;
- Fire and/ or explosions;
- Property and equipment loss and/or damage;
- Near misses;
- Spills of chemicals to unsealed surfaces;
- Incorrect disposal of wastes (particularly hazardous or controlled wastes); and
- Workplace hazards.

The reporting and investigation process shall be carried out at the earliest possible opportunity after the incident occurs.

#### 5.8.2 First Aid

Tiwest shall provide a first aid service for Contract personnel on the Tiwest Kwinana site.

In the case of accidents where serious injury has been sustained Emergency Response personnel are to be contacted either by telephone on Emergency number 111, or via radio on Channel 1. Personnel reporting the accident shall be prepared to advise Emergency Response personnel of the nature of the injury and location on the Tiwest Kwinana site of the injured party.

In the case of incidents where minor injury has been sustained the injured party accompanied by their immediate supervisor is to proceed to the Tiwest Kwinana site First Aid Room located in the Security Gatehouse.

All injuries are to be reported immediately to the injured party's immediate supervisor and then to the Tiwest Works Supervisor. All injuries should be reported and recorded using a Tiwest Pigment Plant Incident Report form in accordance with the Incident Reporting and Investigation procedure.

Where Tiwest refers Contractors personnel to a medical practitioner for treatment, the Contractor shall be responsible for all associated costs.

#### 5.8.3 Applicable Documentation:

TP-SFTY-011 Incident Reporting and Investigation  
TJV199 Corporate SHE Management Standards

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## 5.9 Occupational Health Management

### 5.9.1 Fitness for Work

Participation in the Tiwest Fitness for Work (FFW) program is a condition of entry to a Tiwest Site. The Tiwest FFW program covers a range of issues that impact fitness for work, including fatigue, stress, physical well being, medical issues, rehabilitation at work and alcohol and drugs.

In support of Tiwest program, Contractors are required to:

- Establish a fitness for work policy with requirements that satisfy Tiwest requirements;
- Conduct appropriate education and training for all their personnel working on a Tiwest Site;
- Conduct their own fitness for work assessment program; and
- Establish appropriate disciplinary and management procedures for their employees who breach either the Contractors or Tiwest policy.

In addition to this Contractors are required to:

- Arrange for all their personnel to be inducted and educated prior to commencing work on site;
- Inform their personnel they will be subject to Tiwest's testing programs; and
- Remove from site personnel who breach the Corporate FFW Policy.

### 5.9.2 Alcohol and Drugs

The Contractor shall ensure that its personnel are aware that under no circumstances are Alcohol or Illicit Drugs allowed in any operational areas of the Tiwest Kwinana site.

If in the opinion of either a Tiwest Supervisor or Contractor's Supervisor contract personnel are affected by alcohol or drugs whilst at work they will be immediately removed from Tiwest Kwinana site and the Contractor will be advised of the circumstances.

All personnel working on a Tiwest Site are required to maintain the ability to provide a 0.00% blood alcohol reading and a negative drug test result in line with the applicable Australian Standards

### 5.9.3 Fatigue

Contractor personnel are not to be rostered to work longer than 12 consecutive hours. A Fitness for Work Assessment (Form FFW1) will be done for those persons required to work over 12 hours. No personnel are permitted to work in excess of 14 consecutive hours without the approval of the Tiwest Kwinana site Manager or delegate. Should approval be obtained personnel are not permitted to work in excess of 16 consecutive hours.

### 5.9.4 Smoking

The Tiwest Kwinana Site does not allow smoking on site other than the designated smoking points. Any person found smoking at locations other than those designated may be subject to disciplinary action.

### 5.9.5 Breaches of policy

Contractor personnel who breach Tiwest's Corporate FFW Policy shall be removed from site until such time as an appropriate fitness for work plan has been established. All fitness for work plans are to be approved by the Tiwest Safety and Health Group Leader prior to the person returning to site.

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#### 5.9.6 Applicable Documentation

TJV092 Corporate Fitness for Work Policy  
TJV199 Corporate SHE Management Standards

### 6.0 SAFETY PERFORMANCE MANAGEMENT

#### 6.1 Confined Space

Personnel who are required to undertake work in a confined space, or act as a stand-by person, shall be trained and assessed as competent, with nationally accredited competency based training to AS/NZS 2865:2001, this training is only valid for 2 years.

##### 6.1.1 Applicable Documentation

TP-SFTY-026 Confined Space Entry  
TJV204 Corporate Safety Performance Standards

#### 6.2 Work at Height

The contractor shall ensure its personnel are familiar with the relevant statutory regulations and Tiwest standards and work procedures for the use of equipment relating to working at heights including but not limited to:

- Ladders.
- Scaffolds.
- Elevating work platforms (EWP).
- Fall restraint equipment.
- Full body harnesses (and not belt harnesses).

The contractor shall ensure the provision, inspection, maintenance, supervision and training in the use of such equipment is to the approved Tiwest standard.

#### 6.3 Lifting and Material Handling

##### 6.3.1 Slings And Overhead Cranes

Contractor personnel must:

- Be authorised to sling and use overhead cranes;
- Pre-inspect all items associated with the lift;
- Use only rated shackles, hooks and chains;
- Determine the weight of the load;
- Test the crane brake by lifting the load 100mm and hold on the brake – then proceed with the lift; and
- Not allow any person to work under a suspended load.

Test certificates or records are to be made available by the Contractor when requested by Tiwest.

##### 6.3.2 Lifting Equipment Inspections

All equipment used for lifting must be inspected and tagged by a competent person according the following standard:

- Jan 1 to Mar - Red
- Apr1 to Jun - Green
- Jul 1 to Sep - Blue
- Oct 1 to Dec - Yellow

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Any equipment that does not pass the inspection, does not have the correct colour tag or is not tagged shall have an out of service tagged attached and removed from site. There is no grace period after the date has passed to allow inspections to be done however inspections can be done up to 2 weeks prior to the due date.

In addition to quarterly testing and tagging all equipment must be inspected by a competent person (qualified rigger or dogger) before each use. Any faulty equipment must be immediately tagged out of service and removed from site.

### 6.3.3 Safe Crane Operation

#### 6.3.3.1 Crane access to site

The Contractor shall ensure all cranes under direct or indirect control are registered and certified and that all crane drivers and operators hold a current valid certificate to operate that particular crane. In addition such personnel have been assessed as competent by the Contractor.

Copies of current crane certification, crane operator certificates and assessments need to be made available on request from the contractor.

The Contractor shall make available to Tiwest representatives upon request all inspection, maintenance and repair records for cranes working on site.

#### 6.3.3.2 Crane inspection

Prior to, or on arrival, all cranes shall be checked for following

- Certificate of WorkSafe registration
- Completed mechanical assessment
- All wire ropes shall be in good condition and free of bird caging, crushing, kinking, broken strands or excessive wear.
- Certificates shall be provided by the contractor for all wire ropes, hoist, luffing and pendant ropes, including a statement that confirms sufficient wire rope is available on the drum(s) to undertake all duties required of the crane.
- All braking and emergency braking systems are effective.
- All pin jib crane boom jibs, flies and masts shall be free of major defects.

#### 6.3.3.3 Rules for loading and unloading material

In any instance that the loading and unloading of piping, structural steel, plant equipment and structures, reinforcing mesh and steel and plant equipment and machinery from truck trailers not pre-slung or unitised, the contractor shall provide a detailed risk assessment.

This shall include but not be limited to the following:

- Safe access and egress to the trailer/load (if required)
- Specific details on falls prevention to be provided
- Contingency plans for the safe removal of loads moved or displaced during transport

### 6.3.4 Applicable Documentation

TJV204 Corporate Safety Performance Standards  
AS2550 Cranes – Safe Use  
NOHSC:1006 National Occupational Health and Safety Certification Standard for Users and Operators of Industrial Equipment  
Occupational Health and Safety Act 1984  
Occupational Health and Safety Regulations 1996

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#### 6.4 Energy Isolation

The contractor shall ensure his personnel are familiar, and comply with Tiwest Pigment Plant Isolation and Work Permit procedures.

Contractors shall not carry out work requiring isolations unless trained and assessed as competent within the Tiwest Kwinana site training system.

Any contractor employee required to work on isolated plant is required to have in his possession an approved isolation lock (green coloured safety padlock).

##### 6.4.1 Applicable Documentation

TP-PROD-017 Isolation and Work Permit  
P4.00.01 Energy Isolation Lockout and Tagging  
TJV204 Corporate Safety Performance Standards

#### 6.5 Mobile Equipment and Vehicles

Private vehicles are not permitted on the Tiwest Kwinana site and must be left in a designated parking area. All vehicles entering the Site do so at the owners' risk. Tiwest accepts no responsibility whatsoever, for damage to vehicles while on a Tiwest Kwinana site.

All light vehicles must obtain approval prior to coming to site according to the 'Site Access and Induction Procedure', TP-SFTY-003. Vehicles will only be granted access to the Tiwest Kwinana site on the understanding by the contractor that Tiwest reserves the right to search the vehicle prior to it leaving Tiwest Kwinana site.

Vehicles shall not be operated at speeds in excess of posted limits. The maximum speed limit on the Tiwest Kwinana site is 15 KPH. Mobile equipment should travel at walking speed of not more than **15 km per hour**.

##### 6.5.1 Applicable Documentation

TP-SFTY-003 Site Access and Induction  
TP-SFTY-022 Traffic Management Plan  
TJV204 Corporate Safety Performance Standards

#### 6.6 Hazardous Substances

Contractors shall not handle any chemical unless they have referenced the applicable Material Safety Data Sheet and are aware of the danger involved and minimum protective equipment required.

Contractors who wish to bring hazardous materials on to the Tiwest Kwinana site shall complete a TP-0453 Request For New Chemical Product form and:

- Provide the Tiwest Group Leader Safety and Health with a list of materials to be brought on Tiwest Kwinana site;
- Provide, or arrange for an MSDS for each hazardous material to be submitted to the Tiwest Group Leader Safety and Health;
- Provide an estimate of the amount of material to be stored, and used, on the Tiwest Kwinana site;
- Provide the details on the intended application of the materials to be used at the Tiwest Kwinana site; and
- Provide details on the intended disposal method for residual chemicals and/or used chemical containers.

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Contractors shall not bring hazardous substances onto the Tiwest Kwinana site until advised by the Tiwest Group Leader Safety and Health that the material has been endorsed for use on the Tiwest Kwinana site.

The Tiwest Group Leader Safety and Health will issue approval for the material to be stored and used on the Tiwest Kwinana site including any restrictions that will apply. Consideration will be given to the existing license requirements for storage of hazardous material to ensure this license is not exceeded.

Contractors found using non-approved materials will be required to stop work immediately, and remove the material at his own cost from the Tiwest Kwinana site until such time as approval to store and use of the material is obtained from the Tiwest Group Leader Safety and Health.

The contractors shall ensure:

- All hazardous substances approved for use by the Tiwest Group Leader Safety and Health; shall be in clearly labelled containers that legibly display all instructions with regard to handling, use and disposal. Such substances shall not be transferred to alternative unmarked containers
- The manufacturer's instructions for the use of hazardous substances shall be strictly adhered to, with particular regard to the use of safety appliances, respirators, gloves etc; and
- The storage of hazardous substances shall comply with the requirements of the Dangerous Goods Safety Act 2004 and Regulations and the Tiwest Kwinana site License to Store Dangerous Goods.

Process chemicals exist on the Tiwest Kwinana site in the form of gases, liquids and solids. No person has the authority to interfere with the integrity of pipelines or vessels without specific approvals from authorised Tiwest Kwinana site personnel and appropriate Tiwest Kwinana site Work Permits procedures.

#### 6.6.1 Applicable Documentation

TP-SFTY-004 Chemical Substances Management  
TJV204 Corporate Safety Performance Standards

#### 6.7 Electrical Safety

With the exception of 3-phase power, Tiwest incorporates an earth leakage system into all Tiwest Kwinana site power outlets unless otherwise signposted. Contractors shall ensure all electrical extension leads are fitted with an earth leakage device to supplement the Tiwest system.

No person shall attempt to repair electrical equipment unless they have the appropriate electrical license and are authorised by Tiwest to do so.

Major electrical equipment at the Tiwest Kwinana site has restricted access. This is to ensure integrity of the plant and to prevent exposure to electrical hazards. This is achieved by a system of keyed locks.

Authority for access shall be requested from the applicable Area Supervisor and endorsed by the Electrical Supervisor under the authority of the Plant Manager.

There are three levels of authorised access:

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- Electrical Switch rooms. This access is available to Area Superintendents, Area Supervisors, Electricians, Electrical Supervisors, Electrical Planners and Electrical Engineers;
- 3.3kV and 22kV high-voltage switcher enclosures. This access is available to Electricians, Electrical Supervisors, Electrical Planners and Electrical Engineers; and
- 132kV high-voltage switcher and transformer enclosures. This access is available only to the Electrical Supervisors, Electrical planners and Electrical Engineers.

Extreme care should be exercised when handling pipe, conduit or other metal objects to prevent them from touching exposed electrical conductors, e.g. light globes and overhead wires.

Never work near electrical conductors without first having them declared safe by electrical personnel.

Keep ropes, cables and chains away from electrical conductors when lifting materials.

Do not deliberately spray water or liquid on electrical motors or other electrical equipment.

No welding or brazing shall be undertaken where hot metal can fall into an uncovered cable ladder or onto electrical cables. Before welding or burning is started, all cables shall be covered in an approved manner using sheet metal or fire resistant blankets.

Always treat equipment as "live" until isolated and tagged out.

No work shall be performed on any part of the high voltage distribution system until an electrical permit has been obtained and sighted by authorised Tiwest electrical personnel.

All hand held portable electrical equipment shall be checked before use and have attached an up to date inspection Tag. Damaged equipment and leads shall be repaired or replaced.

#### 6.7.1 Electrical Multimeters

Electrical personnel working on the Pigment Plants Electrical Systems shall use multimeters with the appropriate Safety classification for "over voltage scenarios".

Minimum Over voltage Protection IEC Category III or IV, subject to where the meter is to be used.

In addition, the Contractor should ensure that the fuses integral to the multimeter have voltage/ interrupt current ratings in accordance with the Manufacturer's specification.

#### 6.7.2 Electrical Power Tools

The Contractor shall ensure:

- All power tools shall be maintained in a safe operating condition to the satisfaction of Tiwest;
- Appropriate safety apparel and guards shall be used at all times;
- Electric power tools shall be inspected, tagged and used in accordance with the Tiwest Electrical Manual TP-ENG-114.
- When operating electric power tools extension leads shall not exceed 20 metres in length and shall not be used when coiled and shall be fitted with an earth leakage device.

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Multi power outlets may be used provided the equipment incorporates an appropriate RCD, overload protection or are IP rated for the area intended for use.

Under **NO CIRCUMSTANCES** are modifications to utility points allowed.

#### 6.7.3 Applicable Documentation

TP-PROD-017 Isolation and Work Permit  
TJV204 Corporate Safety Performance Standards

### 6.8 Pressure Hazards

#### 6.8.1 Compressed Air

Use of compressed air for respiratory purposes is prohibited without first having obtained from the Safety Department a current test approval certificate for all breathing apparatus equipment. Use of plant reticulated air for respiratory purposes is strictly prohibited.

Hoses, fittings, tools, air cylinders etc shall comply with all regulatory requirements and standards.

Under no circumstances are changes to be made to the existing Tiwest fittings. Hoses shall not be used unless connections are fitted with Tiwest approved safety pins and hose clamps.

Inspect portable/flexible compressed air fittings and hoses before use.

Compressed air should not be used for cleaning down surfaces, equipment or personnel.

Do not direct compressed air toward any part of the body or any other person.

#### 6.8.2 Gas Cylinders

Handling and storage of gas cylinders shall comply with all regulatory requirements and standards including:

- Portable gas cylinders shall be stored in an upright position and secured at all times.
- Separate different gases according to the Dangerous Goods Code.
- Storage areas should be fire resistant, well ventilated, and located away from any source of heat, store combustibles or possible ignition.

**Note:** Full and empty cylinders should be kept apart in storage to avoid confusion.

Use:

- Contractors shall ensure its personnel are instructed in the identification and uses of industrial gases.
- Do not use oils, greases, or other organic materials on any part of a gas line because of the risk of explosion.
- Ensure proper ventilation.
- Gases must be used with cylinders properly secured in an upright position.
- Cylinders and hoses should be adequately protected when cutting and welding above them.
- Ensure flashback arresters are fitted to hand pieces and manifolds.

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### 6.8.3 Pneumatic Power Tools

Pneumatic power tools shall be positively secured to hoses with approved safety clips or retainers. Hoses shall conform to AS2554. Compressed air receivers are to be closed off and airlines de-pressurised before disconnection

### 6.8.4 Applicable Documentation

- AS 4332 The Storage and handling of gases in cylinders
- AS 4839 The safe use of portable and mobile oxy-fuel gas systems for welding, cutting, heating and allied processes.
- TJV204 Corporate Safety Performance Standards

### 6.9 Fire Prevention

Do not obstruct access to hydrants, hose boxes, fire extinguishers or other fire fighting equipment.

Report any identified defects or damage to fire fighting equipment, to your Tiwest Works Supervisor or Task Coordinator.

Fixed fire fighting equipment shall not be used while undertaking hot work. Designated equipment is available by prior arrangement.

#### 6.9.1 Applicable Documentation

- TJV204 Corporate Safety Performance Standards

### 6.10 Guarding and Conveyor Safety

#### 6.10.1 Conveyors

Conveyors may start automatically from a remote location. Emergency lanyard pull wires are located along all conveyors however, they do not immediately stop the conveyor, they disconnect the drive. The conveyor may run on a few metres which may be sufficient to cause serious injury.

Personnel must:

- Never walk under a conveyor less than head height;
- Not wear loose clothes around conveyors. Long hair must be covered by a hair net;
- Never lean over a moving conveyor;
- Not place tools or equipment on belts;
- Report immediately if you notice missing guards; and
- Under no circumstances ride on conveyor belts.

Shovels are not permitted for use around conveyors unless the conveyor has been shutdown and isolated prior to the work commencing.

Full isolation must be observed for all conveyor work. Belt tracking is exempted with the Works Supervisors permission and the completion of the appropriate permit to work.

#### 6.11 Barricades or Danger Tape

If Contractor's personnel are engaged in work which may endanger other people or they notice a potential danger which could cause injury, they shall arrange to erect a positive barricade or danger and/or caution tape with an information tag securely attached noting the

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hazard, the area and report the danger to his supervisor and then the Tiwest Works Supervisor or Task Coordinator.

#### 6.11.1 Applicable Documentation

TP-SFTY-024 Barricading  
TJV204 Corporate Safety Performance Standards

### **7.0 ENVIRONMENTAL PROTECTION**

Tiwest Joint Venture and its operations manager Tiwest Pty Ltd, is committed to meeting all statutory obligations and commitments for environmental protection, and continuously improving environmental performance.

Tiwest:

- Has an established contractor orientation and training system to define rules and procedures for the Tiwest Kwinana site;
- Monitors contractor conformance with Tiwest Kwinana site environmental standards and procedures; and
- Ensures that conditions of contractor employment for Tiwest include appropriate environmental conduct standards.

The Contractor shall where necessary, modify its operational procedures to maintain contract targets whilst ensuring compliance with Tiwest environmental obligations and commitments.

The Contractor shall ensure that all personnel, whilst on the Tiwest Kwinana site, have been clearly instructed as to their responsibilities under the operating conditions applicable to the Tiwest Kwinana site. Their responsibilities are listed, but are not limited to the requirements of this section. If the Contractor is in any doubt as to his responsibilities under this section he must contact the Tiwest Works Supervisor or Task Coordinator for clarification.

The Contractor is accountable for the environmental performance of their personnel while on the Tiwest Kwinana site and shall ensure that they:

- Co-operate in the achievement of the environmental objectives of Tiwest;
- Comply with instructions given with respect to environmental issues and procedures;
- Correctly use all process equipment;
- Minimise releases of liquids, gases or dusts, during maintenance and operating procedures at all times;
- Ensure that pollution control equipment is maintained at an efficient level at all times;
- Do not undertake any operation which will result in unacceptable effects upon the environment or surrounding communities, from release of air or water borne pollutants, or noise;
- Communicate urgently to a Tiwest Kwinana site Supervisor any situation which could become an environmental hazard, and immediately prevent, if possible, any mishap that has obvious potential for environmental impact;
- Do not interfere with any feral animal trapping equipment or trapped animals; and
- Provide requested data in a timely manner to allow Tiwest to meet legal environmental reporting requirements.

#### 7.1 Smoke and Dust Control

The contractor shall ensure its personnel are aware that deliberately lit fires are prohibited on the Tiwest Kwinana site at all times. No activity shall be undertaken on the Tiwest Kwinana site that has the potential to cause a dust emission that may be visible to any person outside of the Tiwest Kwinana site boundaries or that will cause any impairment to Public Amenity.

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## 7.2 Housekeeping

The Contractor shall keep the Tiwest Kwinana site clean and tidy: shall provide and use small rubbish bins for small items of waste material.

All rubbish within the Contractor's work area shall be removed and the area left clean and tidy at the end of each day.

Large items of waste material are to be stored tidily for subsequent disposal as and when directed by the Tiwest Works Supervisor or Task Coordinator.

Prior to the contract being deemed complete, the Contractor shall remove all temporary buildings, temporary works, materials, plant and equipment used for carrying out the works, and shall leave the site clean and tidy and free of rubbish and surplus materials.

## 7.3 Solid Waste Disposal

The Contractor shall dispose of all waste generated through the execution of its obligations under the contract in an environmentally responsible manner and meet all legislative requirements and Tiwest's waste disposal procedures.

The Contractor shall remove all its own waste prior to its personnels leaving the Tiwest Kwinana site of the completion of work under the scope of the contract. The cost for Tiwest to remove any waste materials left by the contractor after the project could be charged back to the Contractor.

The contract shall not be deemed to be complete until the Contractor has removed all its waste from the Tiwest Kwinana site.

A Waste Solids Shed is maintained on the Tiwest Kwinana site, which is specifically for storage of TI02 production waste. Under no circumstances is the Contractor to leave its waste in, around or near the Waste Solids Shed where it may be removed for disposal at a Tiwest landfill site.

Recyclable materials shall be placed in the wheelie bins or skip bins provided. Additional skip bins can be ordered for the project/works upon request to the site Environmental Advisor, no unauthorised skip bins are to be brought onto site.

## 7.4 Liquid Waste Disposal

The Contractor shall ensure no liquid waste of any kind is disposed of to ground or stormwater drains

The Tiwest Kwinana site maintains an Effluent Treatment System. With the exception of oils and fuels, liquid waste can be disposed of using a bunded area drain, or a drain that feeds into the Effluent Treatment System. No liquid waste shall be disposed of in this manner without approval from the Tiwest Works Supervisor or Task Coordinator.

The Contractor shall ensure that its personnel do not dispose of any waste, liquid or solid directly into the Tiwest Kwinana site Effluent Pond.

The Contractor shall ensure its personnel undertake no activity around the ponds that may cause any damage to the HDPE liner. All activities around the Effluent Ponds are to be supervised by a Tiwest Works Supervisor or Task Coordinator.

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Waste oil may be disposed of in the Oil Tank maintained at the Tiwest Kwinana site Maintenance Salvage Yard. All oil waste not disposed of in this manner must be removed from Tiwest Kwinana site. Bulk volumes of waste oil must be removed from site by a Department of Environment and Conservation (DEC) Licensed Carrier only and a tracking number must be provided to the site Environmental Advisor.

#### 7.4.1 Applicable Documentation

TJV203 Corporate Environmental Performance Standards  
TP-ENV-021 Waste Disposal

### **8.0 SITE FACILITIES**

#### 8.1 General

The Tiwest Kwinana Pigment Plant is located off Mason Road in Kwinana.

#### 8.2 Ablution and Toilet Facilities

Segregated male/female amenities are available at various locations across the site. In addition, shower, changing and personal locker facilities are available within the main amenities building. Subject to availability, upon request lockers can be allocated to contract personnel.

#### 8.3 Crib Facilities

Crib room facilities shall be furnished and maintained by Contractors for their own use. The applicable Tiwest Area Superintendent can, on request from the Contractor, give approval for limited numbers of contractors carrying out short or occasional work, to use Tiwest Kwinana site Crib room facilities.

#### 8.4 Vending machines

Drink and food vending machines are situated throughout the Tiwest Kwinana site in the vicinity of crib rooms.

#### 8.5 Meals

There is no onsite food outlet.

#### 8.6 Temporary Workshops/ Equipment Storage

The Contractor shall ensure:

- All containers brought on site for the purposes of equipment storage or temporary workshops shall have adequate ventilation to prevent hazardous accumulation of noxious or explosive gases. Adequate ventilation shall be in the form of suitably sized grilled slots or a mechanical ventilator;
- No welding, grinding or flame cutting is permitted in container style workshops; and Electrical installations supplying power to a container style workshop shall be in accordance with AS 3000, AS 3007 and AS 3012. In addition all such installations shall include adequate earth leakage protection on all power outlets. The earthing system shall be subject to inspection and approval by Tiwest prior to power being connected to the container.

#### 8.7 Parking

Parking for private vehicles is situated outside of the plant compound at the north end of the Tiwest Kwinana site, off the main access road. Parking for cars and motorbikes is provided. Traffic flow in the car park is one-way as indicated by signage.

The car park is a part of the Tiwest Kwinana site and as such is subject to Tiwest Kwinana site speed restrictions of 15 km/hr.

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A basic deluge car wash is situated at the west end of the car park for use by personnel engaged at the plant to remove dust, which may accumulate on their vehicles while parked at the plant. Operation is by a simple push button control at the entrance to the car wash.

## 9.0 ADDITIONAL REQUIREMENTS

### 9.1 Equal Opportunity in the Workplace

Tiwest is an equal opportunity employer. Tiwest is aware of its obligations to maintain a work place that is free of any discrimination or harassment.

Harassment includes any unwelcome, offensive comment or action concerning a person's race, ethnic origin, sex, marital status, pregnancy, impairment, age, family responsibilities, family status, religious or political conviction. It is behaviour towards another employee that is intimidating or embarrassing.

Tiwest prohibits discrimination and harassment of its employees or any other personnel on the site. It is the responsibility of the Contractor to ensure its personnel uphold proper standards of conduct in the workplace. Tiwest retains the right to take reasonable steps to ensure that the workplace is free from harassment and discrimination including directing the Contractor to have individuals ordered from the site.

Tiwest will ensure any complaints received from the Contractor regarding harassment or discrimination of its personnel will:

- Be treated with the utmost confidentiality;
- Be treated seriously;
- Be attended to promptly; and
- Be investigated impartially.

On becoming aware of harassment or discrimination, Tiwest will take any necessary steps, as appropriate to:

- Ensure that the harassing or discriminatory conduct does not continue; and
- Ensure that complainants and witnesses are not victimised

Sexual harassment has emerged as a major specific workplace issue in the last few years as people become more aware of their rights.

Sexual harassment does not refer to occasional compliments of mutually acceptable behaviour. The emphasis is on uninvited behaviour such as:

- Sex oriented verbal innuendoes/suggestions/comments including lewd comments about physical appearance or displays of erotic pictures ,publications and movies;
- Demands for sexual favours accompanied by implied or overt promises for preferential treatment, or threats concerning an individual's employment status;
- Unwelcome physical contact such as patting, pinching or deliberate body contact;
- Offensive staring, leering or gesturing; and
- Inappropriate language.

Tiwest is aware of its obligations under the Sex Discrimination Act, and will not tolerate such conduct in the workplace.

In accordance with Tiwest's policy contractors shall maintain conduct at work which is free of discrimination or harassment against any Tiwest employee, contractor, or person on Tiwest property.

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Tiwest Kwinana site Management will resolve incident/s of harassment and discrimination quickly and confidentially.

#### 9.1.1 Applicable Documentation

TJV088 Equal Opportunity Policy  
TJV139 Equal Opportunity Procedure

#### 9.2 Industrial Relations

The Contractor, in employing labour for site engagement shall:

- Ensure all personnel or their respective supervisors presents to the Works Supervisor, on request, authentication of all Trade Certificates, Licenses etc. nominated by the employee prior to his commencement of duties on site;
- Ensure personnel are conversant and comply with Tiwest's Occupational Health and Safety, Environmental Protection, and Discrimination and Harassment policies and procedures; and
- Ensure personnel are in possession of and comply with, any and all policy documents which are, from time to time, issued by Tiwest.

The Contractor shall attend conferences relating to industrial matters as required by Tiwest.

The Contractor shall be responsible for maintaining good industrial relations with its personnel providing that Tiwest, whilst not interfering with the industrial or personnel affairs of the contract, and without accepting any responsibility whatsoever in relation to industrial dispute, may give guidance and assistance to the Contractor where Tiwest considers such action is necessary having regard for the best interest of all parties concerned.

The Contractor shall not, without the prior approval of Tiwest, enter into an agreement with a union in respect to the services being the subject of this Agreement.

Subject to all relevant awards the Contractor shall:

- Recognise, deal with and observe the rights of its employees delegates or union officials to the extent that such rights are not being abused or exceeded;
- Only permit union meetings to be held off the Tiwest Kwinana site or within areas prescribed by Tiwest during break and rest periods only. This is done in line with Right of Entry clauses within the Fair Work Act 2009;
- Ensure that its employee delegates do not interfere with the performance of other contractors or that of their employees;
- Notify Tiwest immediately of all meetings with union officials or employee delegates and the subject matter thereof with performance to Tiwest or operations; and
- Confine negotiations to meetings or deputation's composed solely of its own personnel, including employee delegates.

The Contractor shall advise Tiwest and keep the Tiwest fully informed of:

- Any real or potential dispute with personnel or union;
- Any demand from an employee or union for increased wages, alteration of conditions of employment or other concession for employees of the contractor which may involve or effect Tiwest;
- The occurrence of any event which the Contractor considers could result in industrial dispute; and
- Any demarcation dispute that arises between personnel of the contractor and those of Tiwest or any third party.

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In the event of industrial disputation, union ban, limitation of work or denial of facilities or services, the Contractor shall:

- Take all such action that is necessary to bring the dispute to an end subject to the dispute settlement procedures relevant to any applicable Award; and
- Insofar as is possible, ensure that the services under the agreement continue whilst appropriate actions are taken to resolve the dispute.

The Contractor shall not:

- Employ or hire an employee of Tiwest or other contractor engaged on site without the current employer's consent; and
- Do, or cause, anything whereby employees of Tiwest or other contractors engaged on site are induced to terminate their employment.

### 9.3 Rights in Data

Notwithstanding any legends thereon, all drawings, designs, specifications, notebooks, work records, photographs, negatives, reports, findings, recommendations or memoranda of any description relating to the Works, shall be the property of Tiwest.

Tiwest shall have the right to use, duplicate and disclose such data in any manner that it shall determine without any claim by the contractor.

The Contractor agrees to assign, and hereby assigns, the sole ownership of any copyright to Tiwest for any works created pursuant to the contract.

### 9.4 Materials Release

Any person wishing to remove any Tiwest owned property from the Tiwest Kwinana site, regardless of its serviceability or value must first obtain one of the following Tiwest documents, duly authorised by the relevant Tiwest personnel prior to removing the property:

- Tiwest 'Materials Release' form; and
- Tiwest Repair and Maintenance Contract.

The person wishing to remove the property must present the relevant document, appropriately approved, to the Security Guard at the main gate prior to leaving the Tiwest Kwinana site.

### 9.5 Damage and Theft

The Contractor shall at its own expense replace all equipment that is supplied by Tiwest, which is not subsequently returned in good condition subject to fair wear and tear.

While all precautions are taken, Tiwest accepts no responsibility whatsoever, for any loss or damage which may occur to Contractor personal belongings or equipment while on the Tiwest Kwinana site.

Hire Equipment Only: Tiwest is responsible for insuring hire equipment against Fire, Theft, Damage and Loss and to provide a copy of insurance certificate to hire equipment provider.

### 9.6 Radiation

All work carried out that entails potential exposure to radiation sources requires the prior approval of the Tiwest Kwinana site Radiation Safety Officer.

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Contractors using sources of radiation such as X-Rays or Gamma Rays for examination of welds, or for any purpose whatsoever shall ensure that the work is carried out in accordance with all applicable legislative requirements and codes of practice related to radiation safety.

Contractors shall ensure the work is carried out only by designated licensed radiation workers fully trained in requirements for personal hygiene, appropriate personal protective equipment, use of appropriate signs and radiation safety practices.

The Contractor shall supply all personal protective equipment, safety equipment, signage and any other equipment necessary for his employees to carry out work using sources of radiation.

Some areas of the plant have gauges and instrumentation containing a radioactive source necessary for the detection of radiation. These items are identified by signs.

Contractors planning to operate equipment with portable radiation sources, e.g. welding X-ray testing equipment shall observe the appropriate procedures and clearance requirements, inform the Tiwest Kwinana site Radiation Safety Officer of their intention to use X-ray test equipment prior to commencement of work and have a duly authorised plant permit to work and Radiation permit.

Contractors aware of instruments containing a radioactive source that are damaged shall ensure the surrounding area is barricaded off to a minimum distance of 10 metres and that all personnel are excluded from the area therein. They shall then contact the Tiwest Kwinana site Radiation Safety Officer immediately using the emergency phone number or radio channel.

Any person possibly exposed to radiation must report to a Safety Advisor. If any radiation accident or incident occurs, the Tiwest Kwinana site Radiation Safety Officer must be informed immediately.

When performing rigging tasks or operating mobile equipment, contractors shall ensure they are aware of locations of nearby radioactive instruments to avoid collision or damage. This equipment is clearly indicated with signs.

#### 9.6.1 Applicable Documentation

TP-SFTY-024 Barricading  
TP-PROD-017 Isolation and Work Permit

#### 9.7 Noise

Equipment operating at levels above those set by the Occupational Safety and Health Regulations 1996, Environmental Protection (Noise) Regulations 1997 may only be brought onto the Tiwest Kwinana site with the express approval of the Tiwest Work Supervisor. All such equipment will be marked to indicate a noise hazard exists by means of a standard noise hazard label. A maximum sound pressure level of 75dBA at 1 metre from any single item of machinery has been specified for the site.

Additionally, Contractors should be aware and endeavour to ensure that the maximum level of 65dBA not be exceeded outside the Tiwest Kwinana site boundary. Tiwest may request the Contractor to schedule works where possible to ensure noise limits are not exceeded (ie particularly at night).

Equipment which substantially exceeds current acceptable noise levels may impact upon the boundary standard, as such; the contractor should specifically query this requirement.

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In accordance with the requirements above, the Contractor must satisfy the Tiwest Work Supervisor that equipment will not exceed the noise levels specified within the Occupational Safety and Health Act and Regulations (AS 1269 AND AS 1270).

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**AMENDMENT FORM**

The following amendment has been made to this document:

<b>DCR</b>	<b>CHANGE</b>
5195	New document – replaces TP-SPLY-022
06/02/08	Annual audit – No changes except to signatories
31/10/08	Complete rewrite to align with Corporate Standards and inclusion of additional information relating to JSA/Take 2, compressed air cylinders, mobile elevated work platforms, cranes and scaffolding.
25/02/09	Removal of detailed information relating to specific activities. A number of supporting documents have been developed to provide this detailed information.
02/10/09	Added lifting equipment inspections and details on vehicle access procedure
5/11/09	General Site Induction requirement for contactors who haven't been on site for 6 months to redo induction.
31/10/11	Updated section 5.4 regarding junior workers to ensure uniformity with TP-SFTY-003

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