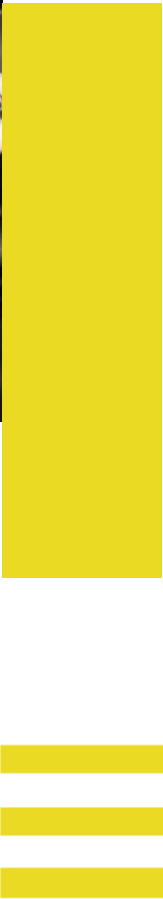




LONGWALLS 705 TO
710
PUBLIC SAFETY
MANAGEMENT PLAN

AUGUST 2015





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Revision Log

Revision	Date	Change Description
0	6 th July 2012	Original document (Longwalls 705 and 706)
1	19 th March 2013	Updated to include Longwalls 707 to 710
1.1	6 th August 2015	Revised for Longwall 707 to 710 approval and South 32 format.

1. INTRODUCTION

South32 Illawarra Coal (IC) operates the Bulli Seam Operations (BSO) extracting hard coking coal used for steel production.

In September 2009, Illawarra Coal submitted an Environmental Assessment (EA) for its BSO to the Department of Planning and Environment (DPE) for the continuation of existing underground mining operations for both Appin and West Cliff Mines. The BSO was approved 22nd December 2011 by the NSW Planning Assessment Commission (PAC) under delegation of the NSW Minister for Planning under Part 3A of the NSW Environmental Planning and Assessment Act (EP&A Act) to continue these mining operations until 31 December 2041.

This Public Safety Management Plan (PMP) is a requirement of Condition 15 of the Subsidence Management Plan (SMP) Approvals for Longwalls 705 to 710.

1.1. SCOPE

The Study Area for the SMP is defined in accordance with MSEC (2008) as the surface area predicted to be affected by the proposed mining of Longwalls 705 to 710 and encompasses the areas bounded by the following limits:

- *A 35° angle of draw line*
- *The predicted vertical limit of subsidence, taken as the 20mm subsidence contour*

Additionally, features potentially sensitive to far field movements, which includes horizontal, valley closure and upsidence movements that may be outside the 20 mm subsidence zone or 35° angle of draw line have been assessed.

As part of the planning for longwall mining, IC has identified assets within the SMP Area which may be affected by the longwall mining operations. Plan 2 (drawing number A07-1367) of the Longwall 707 to 710 SMP Application displays the relevant surface features within the Longwall 705 to 710 SMP Area. This plan is Attachment 1 to this Management Plan.

A Qualitative Risk Assessment was facilitated by AXYS Consulting to identify subsidence risks for the proposed Longwalls 705-710, (AXYS, 2008). The Risk Assessment identified and established controls for the management of risk associated with the extraction of Longwall 705-710.

1.2. OBJECTIVES

The objectives of this Management Plan is to address the management of public safety for structures, houses and surface areas that may be affected by Longwall 705 to 710 mining operations.

1.3. STATUTORY REQUIREMENTS

In accordance with Condition 15 of the SMP Approval, the PMP must include:

- a) Identification of any areas, man-made structures, facilities and infrastructure, which are hazardous or could become hazardous due to subsidence impacts;
- b) Regular monitoring of areas or infrastructure/structures posing safety risks if they are affected by subsidence;
- c) Regular monitoring of stability of areas with cliff formations and/or steep slopes that may be affected by subsidence;
- d) Measures to prevent, mitigate or promptly remediate hazards and safety risks referred to in a) to c) above;
- e) Erection of warning signs;
- f) Entry restrictions;
- g) Backfilling of dangerous surface cracks;
- h) Securing of unstable built structures or rock mass where required and appropriate, and
- i) Provision of timely notification of mining progress to the community and any other relevant stakeholders where management of public safety is required.

1.4. LEGISLATION AND GUIDELINES

This PMP has given consideration to the requirements of the relevant Acts which may be applicable to the works undertaken and advisory documents and guidelines including:

- Coal Mine Health and Safety Act, 2002
- Contaminated Land Management Act, 1997
- Dangerous Goods Act, 1975
- Mining Act, 1992
- Noxious Weeds Act, 1993
- Rail Safety Act, 2002
- Road and Rail Transport (Dangerous Goods) Act, 1997
- Roads Act, 1993
- Protection of the Environment Operations Act, 1997
- Energy and Utilities Administration Act, 1987
- Water Management Act, 2000
- IC Surface Induction
- IC Surface Emergency Management Plan
- Guidelines from relevant infrastructure owners especially regarding the safety of working in and around their assets
- Relevant licenses or approvals acquired under the aforementioned Acts.

1.5. RELEVANT LEASES AND LICENCES

The following leases and licences may be applicable to IC's operations in Appin Area 7.

- Mining Leases as per Table 1.1.

- Environmental Protection Licence (EPL) 2504 which applies to BSO, including Appin and West Cliff Mines. A copy of the licence can be accessed at the EPA website via the following link <http://www.epa.nsw.gov.au/prpoeo/index.htm>
- BSO Mining Operations Plan (MOP) 1/10/2012 to 30/09/2019 (V1).
- All relevant OH&S and HSEC approvals.
- Any additional leases, licences and approvals resulting from the BSO Approval.

Table 1.1 – Appin Mine Leases and Licences

Mining Lease – Document Number	Issue Date	Expiry Date / Anniversary Date
CCL 767	29/10/1991	8/07/2029
CL 388	22/01/1992	22/01/2034
ML 1382	20/12/1995	19/12/2016
ML 1433	24/07/1998	23/07/2019

1.6. LONGWALL 705 TO 710 SMP AREA

The Longwall 705 to 710 SMP Area is a rural area to the north east of the village of Douglas Park. Much of the SMP Area has been cleared for grazing and now supports rural residential landholdings from several to hundreds of hectares. The properties typically have dams, bores and sheds in addition to residences.

The rural area is traversed by surface infrastructure including Menangle and Morton Park Roads, the HW2 Hume Highway, the Main Southern Railway, electrical services and telecommunications services (refer Attachment 1 for location of these features with respect to the longwalls).

The Nepean River takes in the eastern extent of the SMP Area. The River is set in a 60-70m deep gorge that has cliff lines associated with it.

The SMP Area is predominantly privately owned land. There are no community facilities within the SMP Area and public access is limited to the Nepean River and the public roads.

2. PUBLIC SAFETY

IC is committed to ensuring there is no public safety issues associated with the mining of Longwalls 705 to 710. The comprehensive Monitoring and Management Plans submitted as part of the SMP and existing Infrastructure Management Plans address public safety.

Public Safety is addressed in the Longwall 705 to 710 SMP Application and various management plans required under the SMP Approval. These are summarised in the table below.

Table 2.1 – Management Plans which address Public Safety

Management Plan	Purpose / Inclusions
<p>Subsidence Management Plan (SMP)</p>	<p>Relevant sections are:</p> <ul style="list-style-type: none"> • Section 23 / Table 23.1 Predicted Maximum Subsidence, Potential Impacts and Mitigation and Rehabilitation Measures for Natural Features. • Section 24.3 Contingency Plans and Emergency Response: outlines the subsidence management framework components for contingency and emergency response options if public safety impacts are demonstrated to be greater than predicted. • Section 24.4 Public Safety: overview of public safety management and communication associated with mining of Longwalls 705 to 710. • Section 17 Infrastructure Monitoring and Management: addresses the infrastructure within the SMP Area and the management measures in place which will ensure safe operation. • Section 17.5 also refers to the Property Subsidence Management Plans (now the Built Feature Management Plans) in place for landowners and occupiers within the SMP Area. • Section 19 Landscape Monitoring and Management: outlines the monitoring plan developed to prevent environmental damage and personal injuries as a result of cliff and steep slope instability. • Section 25 Stakeholder Consultation Process: outlines the key stakeholder communication methods utilised by the Company for community, government agencies and infrastructure owners/operators. • As part of the SMP Application, a risk assessment was undertaken, which covers aspects relevant to public safety, including cliffs and/or steep slopes, private properties and infrastructure. This risk assessment is included in Appendix G of the SMP.
<p>Infrastructure Management Plans</p>	<p>Management Plans have been developed in consultation with each infrastructure owner to ensure safety and serviceability during the subsidence period. The management plans developed for Longwalls 707 to 710 are extensions of existing plans used to manage subsidence and safety impacts during the extraction of Longwalls 701 to 706. These plans will be updated for Longwalls 707 to 710 before subsidence impacts the features.</p> <p>The following Management Plans are a requirement of Condition</p>

14.1 to 14.3 of the SMP Approval:

- Main Southern Railway Management Plan
- Hume Highway Management Plan
- Public Roads Management Plan
- Telstra Telecommunications Network Management Plan
- Optus Telecommunications Management Plan
- AAPT Telecommunications Network Management Plan
- Nextgen Telecommunications Network Management Plan
- Endeavour Energy Management Plan
- Upper Canal Management Plan

Monitoring activities are defined in the Management Plans and incorporated into the Subsidence Monitoring Program.

Remediation activities are initiated based on monitoring results.

Built Feature Management Plans (BFMPs)

BFMPs are prepared for landholders within the Longwalls 705 to 710 mining area. Each plan includes:

- Identification of features that could potentially be affected by subsidence (home, outbuildings, pools, tanks, dams etc.).
- Engineering assessments of built features.
- Assesses the potential effects of subsidence and outlines management and mitigation measures.
- Outlines consultation with relevant stakeholders.
- Geotechnical inspections undertaken where there is elevated risk due to steep slopes.

The BFMPs have been developed in consultation with the owner to ensure that all issues for their property are addressed and that the owner understands the responsibilities of the Mine Subsidence Board (MSB) and IC.

The management of Residential Properties is defined in:

- Built Feature Management Plans for property owners affected by Longwalls 705 to 710.
- Rural Residential Contingency Plan Appin and West Cliff Collieries, dated 27th March 2012.
- Document summarising Illawarra Coal's actions to maintain the safety and serviceability of man-made structures, dated 28th April, 2012. (to be supplemented with further documents)

Cliff and Steep Slopes Safety Management Plan

Natural features have been identified within the vicinity of the Area 7 Longwalls, including cliffs and steep slopes adjacent to the Nepean River. The Nepean River Cliff and Steep Slopes Management Plan is a requirement of Condition 22 of the SMP Approval and outlines:

- Potential hazards associated with cliffs and steep slopes.
-

- Monitoring of cliff stability.
- Control measures and response actions.
- Reporting and communications.
- Responsibilities and roles for actions within the plan.

Environmental Management Plan (EMP)

The EMP is a requirement of Condition 13 of the SMP Approval. Components of the EMP include surface and groundwater, aquatic and terrestrial flora and fauna, Aboriginal sites and non-Aboriginal heritage items, the Nepean River Gorge and the general landscape. These items are addressed in the SMP Application for Longwalls 705 to 710.

To supplement the above, a revised EMP has been developed incorporating the above environmental aspects in terms of monitoring, management and response to subsidence impacts relating to Longwalls 705 and 706, and Longwalls 707 to 710. The most recent EMP includes the following:

- Appin Area 7 Environmental Monitoring, Table 1.1, dated June 2015.
 - Appin Area 7 Environmental TARP, Table 1.2, dated June 2015.
 - Appin Longwall 707-710 Environmental Monitoring Plan, Figure 1, dated June 2015.
-

3. PERFORMANCE MEASURES AND INDICATORS

The BSO Approval provides Subsidence Impact Performance Measures (Condition 3, Schedule 3) for a range of factors that may influence public safety as per Table 3.1 below.

These include the performance criteria for Land and Built Features. For Public Safety directly, the requirement is for negligible additional risk. “Negligible” is defined within the Project Approval as “small and unimportant, such as not to be worth considering”.

Table 4.1 – Subsidence Impact Performance Measures	
Land (Condition 1 Schedule 3)	
Cliffs of ‘Special Significance’ (i.e. cliffs no longer than 200 m and/or higher than 40 m; and cliff-like rock faces higher than 5 m that constitute waterfalls).	Negligible environmental consequences (that is occasional rock falls, displacement or dislodgement of boulders or slabs, or fracturing, that in total do not impact more than 0.5% of the total face area of such cliffs within any longwall mining domain).
Other cliffs flanking the Nepean River	Negligible environmental consequences (that is occasional rock falls, displacement or dislodgement of boulders or slabs, or fracturing, that in total do not impact more than 0.5% of the

total face area of such cliffs within any longwall mining domain).

Other cliffs

Minor environmental consequences (that is occasional rock falls, displacement or dislodgement of boulders or slabs, or fracturing, that in total do not impact more than 3% of the total face area of such cliffs within any longwall mining domain).

Built Features (Condition 3 Schedule 3)

Key public infrastructure:

- Main Southern Railway;
- Hume HWY; and
- Key SCA Infrastructure (Nepean Tunnel, Cataract Tunnel, Upper Canal, Broughtons Pass Weir and other weirs).

Always safe and serviceable. Damage that does not affect safety or serviceability must be fully repairable, and must be fully repaired.

Other public infrastructure (including water supply pipelines; high pressure gas pipelines and the gas distribution network; electricity transmission and distribution lines; telecommunications cables and optical fibre networks; roads trails and associated structures).

Always safe. Serviceability should be maintained wherever practicable. Loss of serviceability must be fully compensated. Damage must be fully repaired or fully compensated, or else the damaged built feature or damaged infrastructure component must be replaced.

Houses, industrial premises, swimming pools, farm dams and other built features or improvements

Public Safety (Condition 3 Schedule 3)

Public Safety

Negligible additional risk.

It is considered that the above factors represent the principal sources of risk to persons and built features within the Study Area and surrounding cliff lines. Management and mitigation strategies in relation to the hazards identified are provided in Section 5.

4. MONITORING AND REPORTING

4.1. MONITORING PROGRAM

4.1.1. Cliffs and Overhangs, Steep Slopes

The following information is collected, reported and maintained to improve the understanding of the effect of subsidence on cliffs and steep slopes:

- Subsidence movement surveys conducted.
- Regular review of subsidence movement monitoring and inspections.
- Interpretation and assessment of the data derived from surveys and observations.

- Assessment of any response actions implemented.

The Manager Approvals shall institute regular subsidence management meetings during the extraction for the purpose of maintaining communications necessary for the effective operation of this Management Plan. Should any Management Plan triggers be met the Manager Approvals shall convene an exceptional subsidence management meeting to discuss the trigger and any actions required.

Should any ground movement trigger be met the Supervisor Survey shall convene a subsidence management meeting to formulate an agreed and appropriate response. The Manager Approvals shall be responsible for implementation of the agreed actions and the Landholder Coordinator for communication to affected Landowners.

4.1.2. Built Features

Details of monitoring to ensure the performance measure of 'safe' in relation to the infrastructure is detailed in the relevant asset agreements, BFMPs.

The relevant process for each feature or type of feature within the Study Area is outlined in the relevant management plans outlined in Table 2.1 (Infrastructure Management Plans and BFMPs).

With regards to the monitoring and mitigation of impacts to built features, the MSB shall also be involved as required.

4.2. REPORTING

The results of regular monitoring will be provided to infrastructure and asset owners in accordance with the individual agreements between the owners and IC. In some cases this may include regular reporting to steering and/or technical committees in addition to IC's regular reporting.

Results from the monitoring program will be reported to government agencies in regular Subsidence Management Status Reports (requirement of Condition 17 of the SMP Approval) and in the End of Panel Report (EoP) for each longwall (requirement of Condition 18 of the SMP Approval) and Annual Environmental Management Report (AEMR). These reports will: detail the outcomes of monitoring undertaken; provide results of visual inspections; determine whether performance indicators have been exceeded; and whether Corrective Management Actions (CMAs) are required.

In addition to reviews of monitoring specified within the Infrastructure and BFMPs, monitoring results are reviewed monthly by the IC Subsidence Management Committee. However, if the findings of monitoring are deemed to warrant an immediate response the relevant Manager will initiate the management actions required by the relevant Management Plans.

Monitoring results will be made publicly available in accordance with BSO Approval *Condition 8 & 11, Schedule 6* and will also be included in the Annual Reporting *Condition 4, Schedule 6*.

5. MANAGEMENT AND MITIGATION STRATEGIES

Management and mitigation strategies will be undertaken as appropriate, or required following the results of monitoring and in consultation with the landowner or asset owner, as discussed in individual BFMPs and Infrastructure Management Plans. These management and mitigation measures will be implemented in conjunction with the following safety controls.

Controls that apply to the safety hazards identified in Section 3 are discussed below:

- Signs shall be prominently displayed at any rock, cliff face or steep slope that has been identified as susceptible to failure. Signposts will warn specifically of the danger. Where they are to be installed on private or public property this will only be done with the agreement of the landholder or relevant authority.
- The location of all signs, fences, and other remedial or warning provisions established shall be marked on a Plan. This Plan shall be maintained as a record of any remedial measures instituted during mining.

5.1. LIMITATIONS

While it is the intention of IC to maintain safety at all times, there are certain limitations that need to be recognised. Limitations include:

- There is natural instability associated with the cliff faces and edges in the area.
- The interaction of mining induced movements on the natural instability of cliff faces and overhangs cannot be fully quantified.
- Results from inspections, photographing and monitoring cliff faces and steep slopes in more heavily vegetated areas, such as within the Nepean River gorge will not be as precise as non-vegetated areas.
- In the absence of information to the contrary, it has been assumed that the effects of mining will be similar in nature and magnitude to those associated with previous longwalls located in similar areas and the initial controls implemented will be based on this assumption.
- It is difficult to quantify the risks associated with rock falls and while the probability of resultant injuries may be remote, the potential consequences are severe. Controls will be implemented on this basis.
- At the request of and with the approval of landholders, warning signs will be prominently displayed at areas of risk. It is expected that observational monitoring will be undertaken from the river.

6. CONTINGENCY RESPONSE PLANS

In the event the Performance Measures detailed in Section 4 of this PMP are considered to have been exceeded, or are likely to be exceeded, IC will implement a Contingency Plan to manage any unpredicted impacts and their consequences.

This would involve:

- Capture photographic record.
- Notify relevant stakeholders soon as practicable.
- Notify relevant agencies and specialists as soon as practicable.
- Offer site visits with stakeholders.
- Contract specialists to investigate and report on changes identified.
- Provide incident report to relevant agencies.
- Undertake a condition assessment to record impacts.
- Weekly monitoring until stabilised.
- Updates from specialists on investigative process and progress.
- Inform relevant agencies and stakeholders of results of investigation.
- Develop site CMA in consultation with key stakeholders if required and seek approvals.
- Implement CMA as agreed with stakeholders following approvals.
- Conduct initial follow up monitoring and reporting following CMA completion.
- Review Management Plan.
- Report in regular reporting and AEMR.

IC will consult with appropriate specialists and relevant agencies in order to implement an appropriate response in respect to any identified exceedance.

The development and implementation of contingency measures will be designed to address the specific circumstances of the exceedance and assessment of consequences. Any public or private safety risk to persons will be isolated and addressed as soon as practicable.

If the contingency measures implemented by IC fail to remediate or mitigate the impact or the Director-General determines that it is not reasonable or feasible to remediate the impact IC will provide a suitable offset to compensate for the impact to the satisfaction of the Director-General of DPE in accordance with the BSO Approval Condition 2, Schedule 3.

All incidents will be reported internally through IC's Incident Procedure and related records will be maintained in accordance with the Records Management Procedure (refer Section 8.3).

7. INCIDENTS, COMPLAINTS, EXCEEDANCES AND NON-CONFORMANCES

7.1. INCIDENTS

IC will notify DPE, T&I and any other relevant agencies of any incident associated with the extraction of Longwalls 705 to 710 as soon as practicable after IC becomes aware of the incident. IC will provide DPE, T&I and any relevant agencies with a report on the incident within seven days of the date of the occurrence.

In relation to impacts to Built Features the assets owner and the MSB will also be notified as soon as practicable so the appropriate mitigation and management can be undertaken.

7.2. COMPLAINTS HANDLING

IC will:

- Provide a readily accessible contact point through a 24 hour toll-free Community Call Line (1800 102 210). The number will be displayed prominently on IC sites in a position visible by the public as well as on publications sent to the local community.
- Respond to complaints in accordance with the IC Community Complaints and Enquiry Procedure.
- Maintain good relations and communication lines between community and IC staff.
- Keep a register of any complaints, including the details of the complaint with information such as:
 - Date of the complaint.
 - Person receiving the complaint.
 - Complainant's contact name and phone number.
 - Description of the complaint.
 - Work area where complaint relates to.
 - Any immediate response.
 - Details of any written response where appropriate.

7.3. NON CONFORMANCE PROTOCOL

Non-conformities, corrective actions and preventative actions are managed in accordance with the IC *Corrective Action and Effectiveness Review (ICHPO107)*. This procedure details the processes to be utilised with respect to the identification of non-conformances, the application of appropriate corrective actions(s) to address non-conformances and the establishment of preventative actions to avoid non-conformances. The key elements of the process include:

- Identification of non-conformance and/or non-compliances.
- Recording of non-conformance and/or non-compliance.
- Evaluation of the non-conformance and/or non-compliance to determine specific corrective and preventative actions.
- Corrective and preventative actions to be assigned to a responsible person.
- Management review of corrective actions to ensure the status and effectiveness of the actions.

An Annual Review will be undertaken to assess IC's compliance with all conditions of the BSO Approval, mining leases and all other approvals and licences.

An independent environmental audit will also be undertaken (*Condition 9, Schedule 6*) to review the adequacy of strategies, plans or programs under these approvals and if appropriate, recommend actions to improve the environmental performance of the BSO. The independent environmental audit will be undertaken by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Director-General of DPE.

8. PLAN ADMINISTRATION

This PMP will be administered in accordance with the requirements of the Appin Environmental Management System (EMS) and the BSO Approval Conditions. A summary of the administrative requirements is provided below.

8.1. ROLES AND RESPONSIBILITIES

Compliance with conditions of the SMP Approval is managed via an online compliance management system (Tickit), and the SMP Status reporting (Condition 17 of the SMP Approval).

The overall responsibility for the implementation of the SMP resides with the General Manager Energy and Engineering. Parties responsible for the environmental management for Longwalls 705 to 710 extraction and implementation of this PSMP include:

General Manager Energy and Engineering

- Ensure that the requisite personnel and equipment are provided to enable this management plan to be implemented effectively.

Manager Mining Approvals and Manager Infrastructure

- Authorise the PMP and any amendments.
- Delegate to an appropriately qualified person the responsibility to document any changes to the PMP, recognising the potential for those changes to affect other aspects of the PMP.
- Provide regular updates to IC on the results of the PMP.
- Arrange information forums for key stakeholders as required.
- Prepare any report in accordance with the PMP. Maintain records required by the PMP.
- Organise and participate in assessment meetings called to review mining impacts.
- Within 24 hours, respond to any queries or complaints made by members of the public in relation to mining effects.
- Organise audits and reviews of the PMP.

- Address any identified non-conformances, assess improvement ideas submitted and implement if considered appropriate.
- Arrange for the implementation of any agreed actions' responses or remedial measures.
- Ensure surveys required by this PMP are conducted and record details of instances where circumstances prevent these from taking place.

Environmental Field Team Coordinator

- Instruct suitable person(s) in the required standards for inspections, recording and reporting and be satisfied that these standards are maintained.
- Investigate significant subsidence impacts.
- Identify and report any non-conformances with PMP provisions.
- Participate in any other assessment meetings called to review subsidence impacts in the area affected by mining.

Supervisor Survey

- Collate survey data and present in an acceptable form for review at assessment meetings.
- Bring to the attention of the Manager Mining Approvals any findings indicating an immediate response may be warranted.
- Bring to the attention of the Manager Mining Approvals and Manager Infrastructure any non-conformances identified with the Plan provisions or ideas aimed at improving the PMP.

Technical Experts

- Conduct the roles assigned to them in a competent and timely manner to the satisfaction of the Manager Approvals and manager Infrastructure and formally provide expert opinion as requested.

Person(s) Performing Inspections

- Formally bring to the attention of the Environment Field Team Coordinator any non-conformances identified with the Plan, or ideas aimed at improving the Plan.
- Conduct inspections in a safe manner.

8.2. DOCUMENT CONTROL

The IC *Document Control procedure (ICHP0103)* outlines the method for control of defined 'business critical' documentation for all IC operations. The system has been designed in such a manner to ensure that:

- Documents are approved for adequacy by authorised personnel prior to use.
- Obsolete documents are promptly removed from circulation.

- Documents are reissued, or made available, to relevant persons in a timely fashion after changes have been made and the authorisation process is complete.

The PSMP and other relevant documentation will be made available on the South32 IC website <http://www.south32.net> (in accordance with Condition 19 of the SMP Approval).

8.3. RECORD KEEPING

Environmental records are maintained in accordance with the IC procedure *Records Management (ICHP0108)*.

8.4. DOCUMENT CONTROL

The IC *Document Control procedure (ICHP0103)* outlines the method for control of defined 'business critical' documentation for all IC operations. The system has been designed in such a manner to ensure that:

- Documents are approved for adequacy by authorised personnel prior to use.
- Obsolete documents are promptly removed from circulation.
- Documents are reissued, or made available, to relevant persons in a timely fashion after changes have been made and the authorisation process is complete.

The PMP and other relevant documentation will be made available on the IC website (*Condition 11, Schedule 6*).

8.5. MANAGEMENT PLAN REVIEW

A comprehensive review of the objectives and targets associated with the BSO is undertaken on an annual basis via the IC Balanced Planning (1 year outlook) and Balanced Strategy (5 year outlook) processes. These reviews, which include involvement from senior site management and other key site personnel, assess the performance of the mine over the previous year and develop goals and targets for the following period.

An annual review of the environmental performance of BSO will also be undertaken in accordance with *Condition 4, Schedule 6*. More specifically this PMP will be subject to review (and revision if necessary, to the satisfaction of the Director-General) within three months of:

- The submission of an annual review under *Condition 4, Schedule 6*.
- The submission of an incident report under *Condition 7, Schedule 6*.
- The submission of an audit report under *Condition 9, Schedule 6*.
- Any modification to the conditions of this approval.

If deficiencies in the EMS and/or PMP are identified in the interim period, the plans will be modified as required. This process has been designed to ensure that all environmental

documentation continues to meet current environmental requirements, including changes in technology and operational practice, and the expectations of stakeholders.

9. REFERENCES

Appin Colliery Area 7 Longwalls 705 and 706 Subsidence Management Plan Approval, 28th February 2012.

Appin Colliery Area 7 Longwalls 707 to 710 Subsidence Management Plan Approval, 28th September 2012.

Cardno Forbes Rigby, 2008. *Appin Colliery Area 7 Longwalls 705 to 710 Subsidence Management Plan Application.*

MSEC, 2008. *The Prediction of Subsidence Parameters and the Assessment of Mine Subsidence Impacts on Natural Features and Surface Infrastructure Resulting from the Extraction of Proposed Longwalls 705 to 710 at Appin Colliery in Support of the SMP Application, Revision C, MSEC342, June 2008.*