



LOCAL EMERGENCY MANAGEMENT COMMITTEE

RISK STRATEGY PLANS (WORK IN PROGRESS)

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Information Locations

This information is available in alternative formats on request. Please contact The City of Kalgoorlie-Boulder for further details or visit one of our information locations:

William Grundt Memorial Library

13 Roberts Street

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The City provides access to the Internet at this location.

History & Heritage

(Including War Museum)

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3				

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The City of Kalgoorlie-Boulder Emergency Management Arrangements have been prepared and endorsed by the City of Kalgoorlie-Boulder Local Emergency Management Committee pursuant to s41(1) of the *Emergency Management Act 2005*. A copy has been submitted to the State Emergency Management Committee pursuant to s41(5) of the *Emergency Management Act 2005* and a copy has been submitted to the Eastern Goldfields District Emergency Management Committee in accordance with Item 31 of the State Emergency Management Policy Statement 2.5.

Glossary of Terms and Acronyms

The following terms apply throughout these arrangements:

COMBAT – to take steps to eliminate or reduce the effects of a hazard on the community.

COMBAT AGENCY – an organisation which, because of its expertise and resources, is responsible for performing a task or activity such as firefighting, rescue, temporary building restoration, evacuation, containment of oil spills, monitoring of radioactive materials. An emergency operation may involve a number of Combat Agencies.

COMMAND – the direction of members and resources of an organisation in the performance of the organisation's role and tasks. Authority to command is established in legislation, policy statements, and cabinet minutes and/or by agreement within an organisation. COMMAND relates to ORGANISATIONS and operates VERTICALLY within an ORGANISATION

CONTROL – the overall direction of emergency management activities in a designated emergency or disaster situation. Authority for control is established in legislation, policy statements, and cabinet minutes or in an emergency management plan and carries with it the responsibility for tasking and coordinating other organisations in accordance with the needs of the situation. CONTROL relates to SITUATIONS and operates HORIZONTALLY across ORGANISATIONS.

CONTROL CENTRE – a facility where the Incident Controller is located and from which the control and management of emergency operations is conducted. It is usually prefixed by the nature of the emergency, e.g. Fire Control Centre, Cyclone Control Centre, Forward Command Unit, etc.

CONTROLLING AGENCY – An agency nominated to control the response activities to a specified type of emergency

CO-ORDINATION – the bringing together of organisations and elements to ensure an effective response, primarily concerned with the systematic acquisition and application of resources (organisation, human resources and equipment) in accordance with the requirements imposed by the threat or impact of an emergency

DISASTER/EMERGENCY – an event, actual or imminent, which endangers or threatens to endanger life, property or the environment, and which is beyond the resources of a single organisation or which requires the coordinator of a number of significant emergency management activities. NOTE: The terms “emergency” and “disaster” are used nationally and internationally to describe events that require special arrangements to manage the situation. “Emergencies” or “disasters” are characterised by the need to deal with the hazard and its impact on the community. The term “emergency” is used on the understanding that it also includes any meaning of the word “disaster”.

DISTRICT EMERGENCY MANAGEMENT COMMITTEE– is responsible for assisting in the establishment and maintenance of effective emergency management arrangements for the district for which it is constituted and has such other functions as are prescribed by the Regulations.

EMERGENCY MANAGEMENT – is a range of measures to manage risks to communities and the environment. It involves the development and maintenance of arrangements to prevent or mitigate, prepare for, respond to, and recover from emergencies and disasters in both peace and war.

EMERGENCY MANAGEMENT CONCEPTS– Emergency Management means the management of the adverse effects of an emergency including –

1. Prevention – the mitigation or prevention of the probability of the occurrence of, and the potential adverse effects of, an emergency;
2. Preparedness – preparation for response to an emergency;
3. Response – the combatting of the effects of an emergency, provision of emergency assistance for casualties, reduction of further damage, and help to speed recovery; and
4. Recovery – the support of emergency affected communities in the reconstruction and restoration of physical infrastructure, the environment and community, psychosocial and economic wellbeing.

EMERGENCY RISK MANAGEMENT – Coordinated activities of an organisation or a government to direct and control risk. The risk management process includes the activities of:

- Communication and consultation
- Establishing the context
- Risk assessment which includes
 - Risk identification
 - Risk analysis
 - Risk evaluation
- Risk treatment
- Monitoring and review

(Ref. National Emergency Risk Assessment Guidelines AEM Manual Series Handbook 10)

EMERGENCY OPERATION CENTRE – a facility, where the area coordinator is located and from which coordination of all support to the Incident Manager is managed. There are four types of coordination centres State, Region, Local and Forward Coordination Centres

EMERGENCY COORDINATOR – the person appointed by the State Emergency Coordinator to assist the hazard management agency in the provision of a coordinated response during an emergency

FUNCTION SUPPORT COORDINATOR – that person appointed by an organisation or committee to be the Coordinator of all activities associated with a particular support function, e.g. Welfare Coordinator, Medical Coordinator, etc., and includes coordinating the functions of other organisations that support that particular function, e.g. Red Cross in the State Welfare Plan.

HAZARD - a situation or condition with potential for loss or harm to the community or the environment.

HEALTH - a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity.

HAZARD MANAGEMENT AGENCY – that organisation which, because of its legislative responsibility or specialised knowledge, expertise and resources, is responsible for ensuring that all emergency management activities pertaining to the prevention of, preparedness for, response to and recovery from, a specific hazard are undertaken. Such organisations are either designated by legislation or detailed in State level emergency management plans.

INCIDENT – an emergency, which impacts upon a localized community or geographical area but not requiring the coordination and significant multi–agency emergency management activities at a district or State level.

INCIDENT AREA – the area defined by the Incident Controller for which they have responsibility for the overall management and control of an incident.

INCIDENT SUPPORT GROUP – a group of agency/organisation liaison officers, including the designated Emergency Coordinator, convened and chaired by a person appointed by the Controlling Agency to provide agency specific expert advice and support in relation to operational response to the incident.

INCIDENT MANAGEMENT GROUP - the group that may be convened by an Incident Manager in consultation with the relevant Local Emergency Coordinator to assist in the overall management of an Incident. The IMG includes representation from key agencies involved in the response.

INCIDENT CONTROLLER – the person designated by the relevant Controlling Agency, responsible for the overall management and control of an incident within an incident area and the tasking of agencies in accordance with the needs of the situation. [Note: Agencies may use different terminology however the function remains the same].

LOCAL EMERGENCY COORDINATOR – that person designated by the Commissioner of Police to be the District or Local Emergency Coordinator with responsibility for ensuring that the roles and functions of the respective District or Local Emergency Management Committee are performed, and assisting the Hazard Management Agency in the provision of a coordinated multi-agency response during Incidents and Operations. At the State level this is the Commissioner of Police. At the District level it is the District Police Officer. At the local level it is the Senior Police Officer responsible for the police sub-district.

LOCAL EMERGENCY MANAGEMENT COMMITTEE - is established by the local government consists of a chairperson and other members appointed by the relevant local government with the Shire President/Mayor or person appointed by the Local Government as the chairperson of the committee. Functions of the Local Emergency Management Committee to advise and assist the local government in ensuring that local emergency management arrangements are established for its district, to liaise with public authorities and other persons in the development, review and testing of local emergency management arrangements, and to carry out other emergency management activities as directed by the SEMC or prescribed by the regulations. ONE-STOP-SHOP -An effective method of providing the affected community with access to information and assistance is through the establishment of a One Stop Shop/Recovery Information Centre.

LOCAL EMERGENCY MANAGEMENT ARRANGEMENTS – refers to this document and may also be referred to as ‘these arrangements’ or ‘local arrangements’.

LOCAL WELFARE COORDINATOR- is the nominated officer of the Department of Communities, located in the Local Government Authority area .The Local Welfare Coordinator will coordinate the provision of emergency welfare services during response and recovery phases of an emergency and represents the Department on the Incident Management Group when requested.

OPERATION – an Incident or multiple Incidents which impact, or is likely to impact, beyond a localised community or geographical

OPERATIONS AREA – that area, defined by the Operations Area Manager, incorporating the entire community or geographical area impacted, or likely to be impacted, by an Operation and incorporating a single or multiple Incident Areas.

OPERATIONAL AREA SUPPORT GROUP - a group of agency / organisation liaison officers, including the designated Emergency Coordinator, convened by the Operational Area Manager/Incident Controller to provide agency specific expert advice and support in relation to strategic management of the incident/s.

OPERATIONAL AREA MANAGER - the person designated by the relevant Controlling Agency, responsible for the overall management of an Emergency within a defined Operational Area and the provision of strategic direction and operational coordination to agencies and Incident Controller(s) in accordance with the needs of the situation.

PERSONAL SUPPORT SERVICES - The process of assisting the diverse, immediate as well as long term personal needs of people affected by an emergency, including the provision of information services, advice and counselling services to ensure that affected persons receive the necessary personal support to cope with the effects of loss, stress, confusion, trauma and family disruption.

RECOVERY - includes all activities to support affected communities in the reconstruction of physical infrastructure and restoration of emotional, social, economical and physical well-being.

RISK -a concept used to describe the likelihood of harmful consequences, arising from the interaction of hazards, communities and the environment.

RISK MANAGEMENT – The systematic application of management policies, procedures and practices to the task of identifying, analysing, evaluating, treating and monitoring risk. Refer to ISO 3100 (Risk Management – Principles and Guidelines) and the National Emergency Risk Assessment Guidelines (2010).

COMMUNITY EMERGENCY RISK MANAGEMENT- a systematic process that produces a range of measures which contribute to the well-being of communities and the environment. (See also – RISK MANAGEMENT)

STATE EMERGENCY COORDINATION GROUP – a group that may be established at State level, by the State Emergency Coordinator, at the request of, or in consultation with, the Hazard Management Agency, to assist in the provision of a coordinated multi-agency response to and recovery from the emergency. The SECG includes representation, at State level, from key agencies involved in the response and recovery for the emergency.

SUPPORT ORGANISATION -that organisation whose response in an emergency is either to restore essential lifeline services (e.g., Western Power, Water Corporation of W.A, Main Roads W.A. etc) or to provide such support functions such as welfare, medical and health, transport, communications, engineering etc.

UNDEFINED HAZARD - any occurrence or imminent occurrence of a hazard which is of such a nature or magnitude that it requires a significant and coordinated response but is not readily identified as a hazard within the *Emergency Management Act 2005*.

WELL-BEING -The state of being healthy, happy, or prosperous; welfare.

Acronyms Used in these Arrangements

BoM	Bureau of Meteorology
CA	Controlling Agency
CEO	Chief Executive Officer
CKB	City of Kalgoorlie–Boulder
CoE	Coordinator of Energy
DA	District Advisor
DAFWA	Department of Agriculture and Food WA
DCD	Department of Community Development
DoC	Department of Communities
DEC	District Emergency Coordinator
DEMC	District Emergency Management Committee

DER	Department of Environment Regulation
DET	Department of Education and Training
DFES	Department of Fire and Emergency Services
DFES– FRS	Fire Rescue Service
DFES–BFS	Bush Fire Service
DFES–SES	State Emergency Service
DoE	Department of Education
DoH	Department of Housing
DoT	Department of Transport
DPaW:	Department of Parks and Wildlife
ECC	Emergency Coordination Centre
EM	Emergency Management
EOC	Emergency Operations Centre
ERM	Emergency Risk Management
HEAT	HAZMAT Emergency Advisory Team
HMA	Hazard Management Agency
IAP	Incident Action Plan
IC	Incident Controller
ICC	Incident Control Centre
IMT	Incident Management Team
ISG	Incident Support Group
KBERC	Kalgoorlie-Boulder Emergency Recovery Committee
KBERP	Kalgoorlie-Boulder Emergency Recovery Plan
KBERTSP	Kalgoorlie-Boulder Emergency Risk Treatment & Strategies Plans
KBRCC	Kalgoorlie-Boulder Recovery Coordination Centre
LEC	Local Emergency Coordinator
LEMA	Local Emergency Management Arrangements
LEMC	Local Emergency Management Committee
LG	Local Government
LGA	Local Government Authority
LGWLO	Local Government Welfare Liaison Officer
LO	Liaison Officer
LRC	Local Recovery Coordinator
LRCC	Local Recovery Coordinating Committee
LRCG	Local Recovery Coordinating Group
MOU	Memorandum of Understanding
NDRRA	National Disaster Relief and Recovery Arrangements
OAM	Operational Area Manager
OASG:	Operations Area Support Group
OEM	Office of Emergency Management
OIC	Officer in Charge
PPRR	Prevention, Preparedness, Response and Recovery
RC	Recovery Coordinator
SECG	State Emergency Coordination Group
SEMC	State Emergency Management Committee
SEMC PS	State Emergency Management Committee Policy Statement
SEMCS	State Emergency management Committee Secretariat
SEMP	State Emergency Management Policy
SJA	St John Ambulance
SRCC	State Recovery Coordinating Committee
WANDARRA	WA National Disaster Relief and Recovery Arrangements
WAPol	Western Australia Police Service

Air Transport Incident



RISK:	AIR TRANSPORT EMERGENCY				DATE:					STRATEGY PLAN No:	1	
Economy		Environment		Industry		Infrastructure		People	x	Property	x	Social
RISK STATEMENT:												
There is a risk that if an aircraft flying from/to Kalgoorlie Airport across residential, commercial, mining and/ or industrial areas, people, animals and/or pets may be injured, may become ill and/or be killed from the impact, exposure to toxic fumes, fires, falling/flying plane debris. Permanent and/or significant private, commercial and public property and or structure damage may also occur from aircraft impact, fires, explosions and flying debris.												
STRATEGY ANALYSIS:												
Vulnerability Data												
The most vulnerable human/animal/pets elements to an air transport emergency are the aircraft occupants, general public living/working within impact zones, motorists driving through impact zones and sightseers. All residential, commercial and/ or industrial property, heritage buildings, places of worship, recreation, caravan and/or sporting sites/centres, public transport buildings and tourist attractions within the impact and immediate surrounding zones would be exposed to damage and/or destruction.												
RESPONSIBLE AGENCIES/INDIVIDUAL/S:												
<ul style="list-style-type: none"> Civil Aviation Safety Authority (CASA) City of Kalgoorlie-Boulder (CKB) 				<ul style="list-style-type: none"> WA Police (WAPOL) Department of Communities (DoC) 				<ul style="list-style-type: none"> Department of Fire and Emergency Services (DFES) 				
PREVENTION STRATEGIES:										AGENCY:		
Media Campaigns/Public Awareness										WAPOL/CASA		
Risk Assessment										WAPOL/CKB		
PREPAREDNESS STRATEGIES:										AGENCY:		
Business Continuity Management Plan										CKB		
Partnerships with other Authorities/Agencies										WAPOL		
Police Standard Operating Procedures and communications										WAPOL		
Simulated crisis exercises with HMA , combat and support agencies										WAPOL		
Joint FESA & Police Training programs										FESAWAPOL		
Local Emergency Management Arrangements										CKB		
RESPONSE STRATEGIES:										AGENCY:		
Emergency Operation Unit										WAPOL		
Metropolitan Police 24/7 response										WAPOL		
Partnerships & Liaison with other Authorities/Agencies										WAPOL		
Police Standard Operating Procedures and communications										WAPOL		
Emergency Response Coordination + Public information/media management										WAPOL		
Local Emergency Management Arrangements										CKB/LEMC		
RECOVERY STRATEGIES:										AGENCY:		
Police Coordinator & Coordination SOP's										WAPOL		
Evacuation Plan										WAPOL/CKB		
Possible agreement(s) with neighbouring local governments										CKB		
Liaison with other agencies										WAPOL		
Recovery Plan										CKB/LEMC		
Welfare Plan										CKB /LEMC/DoC		

Bushfire



RISK:		BUSHFIRE				DATE:		STRATEGY PLAN No:				2	
Economy		Environment	X	Industry		Infrastructure	X	People	X	Property	X	Social	
RISK STATEMENT:													
There is a risk that if a bushfire occurred, large areas of bushland may be affected, the environment impacted, infrastructure reduced, life and property threatened and social activity restricted/withdrawn. The City of Kalgoorlie-Boulder has extensive tracts of native approximately of bushland within the region. Widespread environmental impact of a wildfire may affect flora and fauna distribution and abundance whilst Station Country could lose their properties, social activity and even life.													
STRATEGY ANALYSIS:													
Vulnerability Data													
Bush fires have occurred within the City of Kalgoorlie-Boulder during the hotter months. They can occur in both the identified Bush Fire District and the Fire Gazette Area. Bush Fires can result in damage and destruction of homes, property, pasture and natural bush land/they can also cause death and injury to people, pets and livestock, disruption of utility services such as electric power, road/rail traffic disruption and accident, and evacuation of fire and smoke threatened homes and areas.													
RESPONSIBLE AGENCIES/INDIVIDUAL/S:													
<ul style="list-style-type: none"> City of Kalgoorlie-Boulder (CKB) Bureau of Meteorology (BOM) Department of Parks and Wildlife (DPAW) 				<ul style="list-style-type: none"> WA Police (WAPOL) Insurance Council of Australia (ICA) 				<ul style="list-style-type: none"> Department of Fire and Emergency Services (DFES) 					
PREVENTION STRATEGIES:										AGENCY:			
Risk Assessment (Community and HMA)										CKB/DFES/DPAW			
Community Education Policy and Strategy										CKB/DFES			
Application & Enforcement of Bush Fires Act & Local Laws										CKB			
PREPAREDNESS STRATEGIES:										AGENCY:			
Community Warnings										CKB/DFES/WAPOL			
Home Bush Fire Plans										DFES			
Bush Fire Management Plan										CKB/DFES			
Identification of Resources										CKB/DFES			
Provision of Additional Resources above an agencies own resources										CKB/DFES			
Training of DFES staff & CKB Bushfire/SES Volunteers										DFES			
Annual Bush Fire Safe Campaigns										DFES			
Clearing of fuel loads										CKB			
Review and Improve Local Emergency Management Arrangements										CKB			
Application of Town Planning Scheme Bushfire Attack Level (BAL)										CKB			
Insurances										ICA			
RESPONSE STRATEGIES:										AGENCY:			
Local Arrangements Activated										CKB			
Bush Fire Warnings										CKB/DFES/BOM			
Local Bush Fire Management Plan										CKB/DFES			
Local Bush Fire Brigades/S.E.S Unit SOP's										DFES			
Post Impact Response (Rescue, Temp Building Repair ETC)										DFES/WAPOL/DPAW/ CKB			
Evacuation										DFES/WAPOL			
City of Kalgoorlie-Boulder after hours procedures/call outs										CKB			
Greater use of Incident Management Groups													
RECOVERY STRATEGIES:										AGENCY:			
Recovery Plan activated										CKB/DFES			
Welfare Plan Activated										CKB/DoC			
Ongoing review Local Bushfire Brigade/SES Unit Response Equipment										CKB/DFES			

Severe Storm



RISK:		SEVERE STORM				DATE:					STRATEGY PLAN		3
Economy		Environment		Industry		Infrastructure		X	People		Property	X	Social
RISK STATEMENT:													
There is a risk that a severe storm will cause substantial property damage requiring external resources to be employed for periods of 12 hours or more. Commercial and industrial property within the City may be damaged and forced to close. Major disruptions could occur to critical lifeline services such as water, power, gas supplies and road and rail networks.													
STRATEGY ANALYSIS:													
Vulnerability Data													
Storms occur periodically within the City of Kalgoorlie-Boulder predominantly during the winter months. Storms can result in damage and destruction of homes, property, and natural bush land/they can also cause death and injury to people, pets and livestock in extreme cases, disruption of utility services such as electric power, road/rail traffic disruption and accident, and evacuation of fire and flood threatened homes, public buildings, tourist venues and commercial and industrial centres.													
RESPONSIBLE AGENCIES/INDIVIDUAL/S:													
<ul style="list-style-type: none"> City of Kalgoorlie-Boulder (CKB) Bureau of Meteorology (BOM) Western Power Corporation (WPC) Insurance Council of Australia (ICA) 				<ul style="list-style-type: none"> WA Police (WAPOL) Local Emergency Management Committee (LEMC) Department of Health (DOH) 				<ul style="list-style-type: none"> Department of Communities (DoC) Department of Fire and Emergency Services (DFES) 					
PREVENTION STRATEGIES:											AGENCY:		
Risk Assessments											CKB/LEMC		
Community Education & Warnings											DFES/BOM		
Application & Enforcement of Building codes											CKB		
Underground Power Programme											CKB/WPC		
Pruning Trees under Powerlines											CKB/WPC		
Target & Improve Community Education											DFES		
PREPAREDNESS STRATEGIES:											AGENCY:		
Community Warnings											DFES/BOM		
Local SES Unit Standard Operating Procedure's (SOP's)											DFES		
Training of both DFES staff & DFES-SES Volunteers											DFES		
Annual Storm safe campaign											DFES		
Cleaning of Road Drainage systems											CKB		
Review and evaluate Local Emergency Management Arrangements											CLB/LEMC		
Review and Improve Storm Damage Training & Equipment for SES Volunteers											DFES		
Insurances											ICA		
RESPONSE STRATEGIES:											AGENCY:		
Storm Warnings											DFES/BOM		
Local S.E.S Unit SOP's											DFES		
Post Impact Response (Rescue, Temp Building Repair ETC)											DFES/WAPOL/DCD		
City of Kalgoorlie-Boulder after hours procedures/call outs											CKB		
Local Emergency Management Arrangements in place											CKB/LEMC		
Ongoing review Local SES Unit Response Equipment											DFES		
Greater use of Incident Management Groups											DFES/CKB		
RECOVERY STRATEGIES:											AGENCY:		
Recovery Plan											CKB/LEMC		
Contact List											DFES/SES/DOH/CPFS/WAPOL/CKB/LEMC		
Liaison with other agencies											DFES		

Urban Fire



RISK:		URBAN FIRE				DATE:				STRATEGY PLAN		4
Economy		Environment	X	Industry		Infrastructure	X	People	X	Property	X	Social
RISK STATEMENT:												
<p>There is a risk that an urban fire will cause major damage to residential, commercial and/or industrial property, which could leave resident's homeless and businesses /industry unable to operate. Properties may be severely damaged or destroyed, with some being deemed unsafe and requiring demolishing. Human injury or multiple deaths may occur, and many pets may be homeless or killed. Toxic fumes from the fires may cause people with respiratory issues or other health conditions to become ill. Business areas such as Hannans Boulevard, Hannan and Burt Street Central Business Districts and the major industrial areas located at west Kalgoorlie, Boulder would be vulnerable. Contaminants and/or pollutants could filter into the atmosphere.</p> <p>Urban fire could damage or destroy overhead power lines and communication infrastructure, causing service and communication interruptions to homes, businesses, industry and traffic management lights. An urban fire could impact upon roads and rail transport infrastructure causing fire debris, damage to roads, traffic congestion, accidents and impact on the supply of products and services to residents and businesses.</p>												
STRATEGY ANALYSIS:												
Vulnerability Data												
<p>Kalgoorlie-Boulder experiences very cold winters and many of its buildings especially the older ones are constructed of timber frame and are heated by wood fires and an array of other heating sources both electrical and gas. Structural fires are not uncommon in Kalgoorlie-Boulder and range from house fires to factory fires and scrub fires on vacant land within the urban areas. The trend to reduce the size of suburban blocks and increase plot ratios has increase the risk of house fires spreading from one to another in new developments threatening property and life.</p>												
RESPONSIBLE AGENCIES/INDIVIDUAL/S:												
<ul style="list-style-type: none"> City of Kalgoorlie-Boulder (CKB) Water Corporation (WC) 				<ul style="list-style-type: none"> WA Police (WAPOL) Local Emergency Management Committee (LEMC) 				<ul style="list-style-type: none"> Department of Fire and Emergency Services (DFES) Insurance Council of Australia (ICA) 				
PREVENTION STRATEGIES:										AGENCY:		
Risk Assessment										CKB/LEMC		
Provide a range of fire prevention services to increase community awareness of hazards and involvement in minimizing their impact										DFES/WAPOL		
Enforce fire breaks as per local laws										CKB		
Enforcement of Building Codes Australia										CKB		
Building inspections & planning approvals										DFES/CKB		
PREPAREDNESS STRATEGIES:										AGENCY:		
Prepare Local Emergency Management Arrangements										CKB/LEMC		
To provide and maintain appropriate and adequate infrastructure, equipment, skilled personnel, plans and programs in preparation for fire										DFES/WAPOL/CKB/WC		
To support the community in its own preparation for fire										DFES/CKB		
Installation and Maintenance of Standalone, Reticulated Hydrant Network										WC		
Insurances										ICA		
RESPONSE STRATEGIES:										AGENCY:		
To ensure rapid and comprehensive response to fires, to contain and minimize the impact of fires and to perform rescues.										DFES/WAPOL/LIFELINES		
To support the community in its own response to fires										DFES/WAPOL		
Identify Evacuation Centres in vulnerable areas										CKB/DoC		
Media Management										DFES		
RECOVERY STRATEGIES:										AGENCY:		
Recovery Plan										CKB		
Fire investigation										DFES/WAPOL		
Media and Community Information Management										CKB		
Insurances										ICA		

Hazardous Materials Incident/Chemical Spill

RISK:	HAZARDOUS MATERIALS/ CHEMICAL SPILL					DATE:				STRATEGY PLAN No:	5	
Economy		Environment	X	Industry		Infrastructure		People	X	Property		Social
RISK STATEMENT:												
There is a risk that if a chemical/hazardous material spill occurred, illness, injury or death to people residing within the City of Kalgoorlie-Boulder may happen. The extent is dependent upon the location of the contamination, the climatic conditions and the nature, composition and amount of pollutant exposed to the general community. Many pets may also be affected, either becoming ill or dying.												
STRATEGY ANALYSIS:												
Vulnerability Data												
Wherever hazardous materials are manufactured, processed, stored or transported there is a risk of a hazardous materials emergency. Certain industries and businesses within the City manufacture, process, store and transport hazardous materials. There are Major Hazard Facilities (MHF) under the National Standard (NOHSC: 1014) because their operations or storage inventory is such that an emergency release incident may impact outside of their boundary. In the event of an uncontrolled release of hazardous material (solid, liquid or gaseous) some or all of the following effects may be experienced, death, injury or illness (people, pets and livestock), fire and/or explosion, wetlands and watercourses, trapped persons requiring rescue, evacuation of homes and areas, road/rail traffic disruption and accidents.												
RESPONSIBLE AGENCIES/INDIVIDUALS:												
<ul style="list-style-type: none"> Australian Pesticides and Veterinary Medicines Association (APVMA) Department of Health (DOH) Department of Commerce (DOC) 				<ul style="list-style-type: none"> City of Kalgoorlie-Boulder (CKB) Main Roads Department of Mines and Petroleum (DMP) 				<ul style="list-style-type: none"> Department of Environment Regulation (DER) Department of Fire and Emergency Services (DFES) 				
PREVENTION STRATEGIES:										AGENCY:		
Drainage and sewer systems are monitored (and inspected) thus allowing for sectioning and isolation of pollutants										CKB		
Industrial wastes licensing policies possible polluters, regulation and inspection										CKB/DOH/DER/DOC/DMP		
Compliance assessment, monitoring, regulation and enforcement										DER/DOH/DOC/DMP		
Offer toxicological advice and consultation on safe pesticide and chemical use										DOH/DER		
Assist in developing chemical safety standards for environmental chemical usage, human exposure criteria and assess possible public health impact										DOH/DER		
PREPAREDNESS STRATEGIES:										AGENCY:		
Contingency plans exist for system failures and exercised annually, staff rostered on a 24 hours 7 days a week										WC/DOH/CKB		
Hazardous Emergency Advisory Team (HEAT) on call 24 hours										DOH/DER		
Maintain key agency contact lists										CKB/LEMC		
Pollution Response Unit (PRU) and Crisis Management Plan capabilities										DER		
Pollution and emergency response training										DFES/WAPOL		
Preparation, exercise and review the Local Emergency Management Arrangements										CKB/LEMC		
RESPONSE STRATEGIES:										AGENCY:		
Local Emergency Management Arrangements										CKB/LEMC		
Response contingency plans										WC/CKB/DFES		
Deploy response staff, equipment, remediation chemicals and collect samples										WC/CKB		
Radioactive hazards – provide laboratory analysis, establish and direct measures to mitigate public health impact and recommend control measures										DOH		
PRU response dependent on pollutant										DER		
HEAT reviews results following monitoring of other agencies										DOH/DER		
Notify, brief and assist with other key agencies. e.g. Support for WESTPLAN HAZMAT & CBR										DFES/WAPOL		
RECOVERY STRATEGIES:										AGENCY:		
Recovery Plan										CKB		
PRU to provide first response for containment, confinement and cleanup on land										DER		
Oversee assessment and management of contaminated land/and removal, transportation and disposal site of pollutants										DOH		
Provide advice and support to recovery committee												
Appropriate action and advice– recovery/refurbishment/contingency planning										DOH/DER/CKB/WAPOL		
Ongoing review of sampling data conducted by other agencies										DOH		
Dependent on type of contaminant – establish register of effected individuals										DFES		
Increase number of trained individuals for emergency response										DER		

Human Epidemic



RISK:		HUMAN EPIDEMIC				DATE:		STRATEGY PLAN			6			
Economy	X	Environment		Industry	X	Infrastructure		People	X	Property		Social	X	
RISK STATEMENT:														
There is a risk that if an epidemic occurred, the approximate population of 33,000 people that reside in the City of Kalgoorlie-Boulder would be at risk, the local and state economies could be impacted due to major numbers in the workforce becoming ill/dying or staying at home due to quarantine measures and/or caring for ill family members. Industries would be forced to suspend trading or close their doors due to the severe staff shortage and social and cultural activity would be affected due to social distancing and anti-social targeting of quarantined groups and/or infected individuals.														
STRATEGY ANALYSIS:														
Vulnerability Data														
Persons in the age groups 65+ years old and children aged less than 4 years old would be most vulnerable whilst people living/working with or near infected animals/people, living/working near contaminated water/food, living/working with people/animals that possess underlying medical conditions have increased risk to infection, illness and possibly death. All businesses that rely on human interaction/presence, tourism, social networks and industry that manufactures: potable water/food/animal/pet feed would be affected. The local economy and industry would be severely affected whilst visiting of relatives, walk/riding trails, parks/reserves, heritage buildings; places of worship and recreational sites would be restricted.														
RESPONSIBLE AGENCIES/INDIVIDUALS:														
<ul style="list-style-type: none"> Australian Department of Health (ADOH) Department of Communities (DoC) 			<ul style="list-style-type: none"> City of Kalgoorlie-Boulder (CKB) Department Environment Regulation (DER) 			<ul style="list-style-type: none"> WA Department of Health (DoH) WA Police (WAPOL) 								
PREVENTION STRATEGIES:										AGENCY:				
Seasonal Risk Assessment										DOH				
Monitoring programs relating to food hygiene, water treatment, sewerage treatment etc.										DOH/CKB				
Immunization, Vector, Notifiable Disease Surveillance Programs										DOH/CKB				
Collaboration with national and international health agencies										ADOH				
Health promotion and education programs										DOH/CKB				
PREPAREDNESS STRATEGIES:										AGENCY:				
Business Continuity Management Plan										CKB				
Prepare, exercise and review Local Emergency Management Arrangements										CKB/LEMC				
Communication - National and International surveillance										ADOH/ DOH				
Establish, medical stockpiles, distribution and dispensing plans										ADOH/DOH				
Outbreak management programs incl. the establishment of quarantine rooms (fever rooms) as directed by DOH, training and of locations and availability of medical supplies around Australia										DOH				
WestPlan										DOH				
RESPONSE STRATEGIES:										AGENCY:				
Proportionate implementation of Committees and Management Plans and Control Centres										ADOH/DOH				
Isolate and treat cases, commence tracing, testing and possible quarantining of contacts										DOH				
Administer vaccines or other drugs										DOH				
Advise on infection control measures										DOH				
Media releases to address public concerns, disseminate info on how to reduce risk of infection and what to do if infection is suspected										DOH				
Investigate cause of human epidemic										DOH/CKB				
Oversee/conduct water sampling and maintenance of water quality, food safety										DOH/CKB				
Oversee safe disposal of contaminated waste										CKB				
Vermin control or insect infestations										CKB				
RECOVERY STRATEGIES:										AGENCY:				
Recovery Plan										CKB/DOH /DoC				
Enhanced and/or increased public education programs										DOH/CKB				
Increased surveillance and screening of 'at risk' groups										DOH				
Monitoring and eliminating or controlling the source or cause of the infection										DOH/CKB				
Counselling, screening and following up effected individuals and their contacts										DOH				
Public education										DOH				

Road Transport Incident



RISK:	ROAD TRANSPORT EMERGENCY				DATE:				STRATEGY PLAN				7
Economy		Environment		Industry		Infrastructure		People	X	Property		Social	
RISK STATEMENT:													
There is a risk that if a major transport accident occurred, people in or near to the accident may be seriously injured or killed. Other road users may be involved, with possible injuries and /or multiple deaths. Toxic fumes from chemical and hazardous material spills and/or subsequent fires etc may cause people with respiratory issues or other health conditions to become ill in surrounding areas. Emergency response personnel are also at risk of injury or death in the event of an unforeseen explosion/s whilst attending to the injured, spillages and fires. Major arterial routes include Anzac Drive, Goldfields Highway and Great Eastern Highway.													
STRATEGY ANALYSIS:													
Vulnerability Data													
Vehicular accidents occur regularly within the City of Kalgoorlie-Boulder predominantly during the winter months due to inclement weather. The major arterial routes are the most vulnerable. Accidents can result in death and injury to vehicle occupants, persons working on public carriageways, animals within/at the impact zones, other motorist's, sightseers, responders, passers-by and pedestrians attending, driving and/or walking through incident zones.													
RESPONSIBLE AGENCIES/INDIVIDUAL/S:													
<ul style="list-style-type: none"> City of Kalgoorlie-Boulder (CKB) Department of Fire and Emergency Services (DFES) 				<ul style="list-style-type: none"> Department of Fire and Emergency Services (DFES) Main Roads Department (MRD) 				<ul style="list-style-type: none"> Department of Planning & Infrastructure (DPI) Department of Environment Regulation (DER) 					
PREVENTION STRATEGIES:											AGENCY:		
Risk Assessment											CKB/LEMC		
Media Campaigns/Public Awareness											WAPOL		
Police Patrols & Enforcement											WAPOL		
Partnerships & Liaison with other Authorities/Agencies											WAPOL		
Vehicle Examination & Licensing											DPI/WAPOL		
Databases regarding 'Hot Spots'											CKB/MRD/WAPOL		
Legislation											WAPOL/DPI/CKB/MRD		
Design and fund implementation of traffic measures											CKB/MRD		
PREPAREDNESS STRATEGIES:											AGENCY:		
Exercise, review and improve Local Emergency Management Arrangements											CKB		
Region Incident Management Plan (IMP)											MRD		
24 hour Emergency and Traffic Fault Reporting/Traffic Operations Centre											WAPOL		
Police Training											WAPOL		
Partnerships & Liaison with other Authorities/Agencies											WAPOL		
Police Standard Operating Procedure's (SOP's) and communications											WAPOL		
Hazmat Identification											DFES/WAPOL		
RESPONSE STRATEGIES:											AGENCY:		
Region Incident Management Plan (IMP)											MRD		
Major Crash Unit											WAPOL		
Police 24/7 response											WAPOL		
Partnerships & Liaison with other Authorities/Agencies											WAPOL		
Police SOP's and communications											WAPOL		
Compulsory First Aid Training for all staff											WAPOL		
Local Emergency Management Arrangements in place											CKB		
Media and Community Information Management											WAPOL/MRD		
RECOVERY STRATEGIES:											AGENCY:		
Recovery Plan											CKB		
Media and Community Information Management											CKB/WAPOL		
Local Government Agreement with neighbouring councils											CKB		
Liaison with other agencies											WAPOL		
Police Coordinator & Coordination SOP's											WAPOL		

Earthquake



RISK:		EARTHQUAKE				DATE:				STRATEGY PLAN				8
Economy		Environment		Industry		Infrastructure		People	X	Property	X	Social		
RISK STATEMENT:														
A major earthquake along the fault line in Kalgoorlie-Boulder (although rare) could result in significant loss of life, significant damage to infrastructure and the natural environment. This would have a potentially long-lasting impact upon the local economy and the economic and psycho-social stability of the community														
STRATEGY ANALYSIS:														
Vulnerability Data														
Kalgoorlie contains a significant stock of older masonry structures built during the Yilgarn-Goldfields gold rush of the late 1800s. These structures are typically heritage listed and clustered around the central business district of Kalgoorlie and the business district of the once separate community of Boulder. Only a few minor injuries resulted from the earthquake and associated damage. Given the widespread loss of masonry chimneys and parapets more injuries and some fatalities might have been expected. The timing of the event of 8.17am was fortunate in that falling masonry in Boulder would have landed on school children if the earthquake had occurred just 15 minutes later. The severity of shaking beneath the Kalgoorlie business district was approximately 5 on the Modified Mercalli scale typically causing only slight damage to older masonry buildings.														
RESPONSIBLE AGENCIES/INDIVIDUAL/S:														
<ul style="list-style-type: none"> Geoscience Australia (GA) Lifelines City of Kalgoorlie-Boulder (CKB) 				<ul style="list-style-type: none"> WA Police (WAPOL) Department of Fire and Emergency Services (DFES) 				<ul style="list-style-type: none"> Department of Communities (DoC) 						
PREVENTION STRATEGIES:											AGENCY:			
Risk Assessments											DFES/CKB			
Community Education & Warnings											DFES/CKB			
Application & Enforcement of Building codes											CKB			
Underground Power Programme											WP			
Target & Improve Community Education											DFES/CKB			
PREPAREDNESS STRATEGIES:											AGENCY:			
Prepare Local Emergency Management Arrangements											CKB			
Public information about earthquake preparedness											DFES/CKB			
SES Unit equipped for earthquake response											DFES/CKB			
State Health Emergency Response Plan											DOH			
Review and Improve Local Emergency Management Arrangements											CKB/LEMC			
Insurances											ICA			
Australian Earthquake Loading Standards											GA			
Business Continuity Planning											CKB			
RESPONSE STRATEGIES:											AGENCY:			
Development of regional earthquake emergency response plan											DFES			
Public education program in support of response plan											DFES/CKB			
Local S.E.S Unit SOP's											DFES/SES			
Post Impact Response (Rescue, Temp Building Repair ETC)											CKB			
Evacuation											WAPOL			
City of Kalgoorlie-Boulder after hours procedures/call outs											CKB			
Local Emergency Management Arrangements in place											CKB/LEMC			
Ongoing review Local SES Unit Response Equipment											DFES/SES			
RECOVERY STRATEGIES:											AGENCY:			
Recovery Plan											CKB/LEMC			
Media and Community Information Management											DES/CKB			
Insurances											ICA			

Rail Freight Emergency

(Refer to the following documents: *Rail Crash (East of Kalgoorlie) Aviation Sub Plan, Rail Crash East Health Plan, WA Contingency Plan VO 3 – Rail Track East of Kalgoorlie and RFDS Country Airstrips Spreadsheet*)

RISK:		RAIL FREIGHT EMERGENCY				DATE:					STRATEGY PLAN		9
		No:											
Economy		Environment		Industry		Infrastructure		People	X	Property	X	Social	
RISK STATEMENT:													
There is a risk that if a rail freight emergency occurred, property situated in close proximity to the rail lines could be damaged, particularly Bridge infrastructure connecting Kalgoorlie Central Business District to the suburbs of Lamington, Piccadilly, Hannans etc, or the Goldfields Highway. Major rail lines dissect the City of Kalgoorlie-Boulder ie the Trans Australian Railway east/west which goes out to the South Australian Border and Goldfields/Esperance line north/south. The east/west line carries both freight and passenger trains (Prospector & Indian Pacific) whilst the north south lines within the City are predominantly freight. The isolation of the rail infrastructure poses unique challenges in the management of an incident.													
STRATEGY ANALYSIS:													
Vulnerability Data													
A number of challenges face responding agencies in the event of an incident including: 700km or remote track, limited access, frequent usage for both passenger and freight trains, geographic extent of area, climatic conditions, response time for emergency management services to arrive on site, welfare of responders attending incident. Incidents correlated to heavy rainfall events.													
RESPONSIBLE AGENCIES/INDIVIDUALS:													
<ul style="list-style-type: none"> City of Kalgoorlie-Boulder (CKB) Australian Rail Track Corporation (GSR) Brookfield Rail (BR) Aurizon (AU) 				<ul style="list-style-type: none"> WA Police (WAPOL) Great Southern Railway (GSR) Department of Fire and Emergency Services (DFES) 				<ul style="list-style-type: none"> Goldfields-Esperance District Emergency Management Committee (DEMC) Department of Communities (DoC) 					
PREVENTION STRATEGIES:										AGENCY:			
Risk Assessment										PTA/AU/GSR/BR			
Police Patrols & Enforcement										WAPOL			
Partnerships & Liaison with other Authorities/Agencies										WAPOL			
Rail Line Examination & Servicing										WN/AU/GSR			
Databases regarding 'Incident Hot Spots'										WN/AU/GSR			
Design and fund implementation of rail freight/transport measures													
Training										WAPOL			
Weather Forecasting										BOM			
PREPAREDNESS STRATEGIES:										AGENCY:			
Local Emergency Management Arrangements										CKB			
WA Contingency Plan & Aviation Sub-Plan for Rail Crash (East of Kalgoorlie)										DEMC			
24 hour Emergency and Line Fault Reporting/Line Operations Centre										BR/PTA/AU/GSR			
Police Standard Operating Procedure's (SOP's) and communications										WAPOL			
Hazmat Identification										WAPOL			
Exercise, review and improve Local & District Emergency Management Arrangements										CKB			
RESPONSE STRATEGIES:										AGENCY:			
Activation of WA Contingency Plan & Aviation Sub-Plan for Rail Crash (East of Kalgoorlie)										CKB/WAPOL			
WAPOL 24/7 response										WAPOL			
Partnerships & Liaison with other Authorities/Agencies										WAPOL			
Police SOP's and communications										WAPOL			
Media Management, Public Information										WAPOL			
RECOVERY STRATEGIES:										AGENCY:			
Recovery Plan										CKB			
Evacuation Procedures										WAPOL/DFES			
Liaison with other agencies										WAPOL			
Police Coordinator & Coordination SOP's										WAPOL			

Mining Accident



RISK:		MINING ACCIDENT				DATE:					STRATEGY PLAN		10
Economy		Environment		Industry		Infrastructure		People	X	Property	X	Social	
RISK STATEMENT:													
Mining accidents occur annually and can range from minor injury to serious injury and death. Kalgoorlie-Boulder is a mining centre featuring both shaft and open pit mining. The nature of mining accidents is varied but generally involves earth collapse, machinery failure or both. This may extend to surface level displacements and lead to damage of buildings. Despite rigid legislative and industrial controls, mining has its dangers and many accidents have been recorded that have resulted in injuries, fatalities and substantial financial loss.													
STRATEGY ANALYSIS:													
Vulnerability Data													
RESPONSIBLE AGENCIES/INDIVIDUAL/S:													
<ul style="list-style-type: none"> Geoscience Australia (GA) Lifelines City of Kalgoorlie-Boulder (CKB) 				<ul style="list-style-type: none"> WA Police (WAPOL) Mining Companies (MC) 				<ul style="list-style-type: none"> Department of Communities (DoC) 					
PREVENTION STRATEGIES:											AGENCY:		
Risk Assessment													
Regulatory licensing policies													
Compliance assessment, monitoring, regulation and enforcement													
Geological and seismology monitoring													
PREPAREDNESS STRATEGIES:											AGENCY:		
Business Continuity Management Plan													
Contingency plans exist for system failures and exercised annually with staff rostered to operate 24 hours 7 days a week													
Emergency Response Team(s) on call 24 hours													
Maintain key agency contact list													
Standard Operating Procedures													
Joint agreements & training programs													
Simulated crisis exercises													
RESPONSE STRATEGIES:											AGENCY:		
Emergency Response Unit													
24/7 Response ability													
Standard Operating Procedures and Communications													
Partnerships and liaison with agencies and other companies													
Emergency Response Co-ordination & public information/media management													
Notify, brief and assist with other key agencies													
Local Emergency Management Arrangements													
RECOVERY STRATEGIES:											AGENCY:		
Evacuation Plans													
Agreements with mining and Local government													
Liaison with key agencies													
Recovery plan													
Welfare Plan													