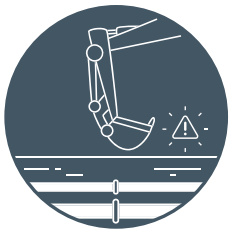


# Live Services

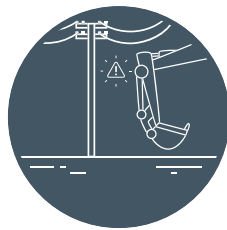
**Working near Live Services refers to any activities that have the potential to:**

- Encroach within a safe approach distance of services (i.e. considering asset owner zones and potential variations in service location); or
- Disrupt or damage a service.

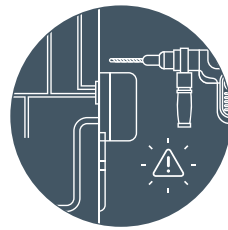
## Primary risks that may be encountered:



**Striking an underground service**



**Striking an overhead service (including electrical arc)**



**Striking a concealed service**

Additional hazards may be involved in the work activity, such as risks associated with mobile plant, excavation, electrical work or lifting. These additional hazards and risks must be identified and controlled during planning as per FPA's HSE Management System.

## Planning

Prior to conducting works near live services, the following must be completed:

- Determine whether the need to work near live services can be eliminated
- Identify all services in the work area and document on a location service plan (eg., DBYD, service plans, visual inspection)
- Confirm emergency response procedures applicable to the risks
- Review and accept the SWMS covering the works
- Authorised FPA permit is in place (i.e., excavation permit, isolation permit, overhead services permit)



## Control

The following control measures must be implemented when there is the potential of the risk being encountered. Additional controls must be documented in the SWMS.



### Striking an Underground Service

- Location service plan is up to date
- Authorised excavation permit is at the location of work (e.g., in cabin)
- All asset owner requirements are complied with
- Known services within 5 meters of the planned excavation are positively identified via nondestructive methods and physically marked
- A spotter is present when excavating within 2 meters of a service (as a minimum)
- A minimum 500mm separation distance (or greater as per asset exclusion zone) is maintained between any service and mechanical digging components



### Striking an Overhead Service (inc. electrical arc)

- The permit for working in the vicinity of overhead services has been authorised and is in the location of the work
- The working envelope of mobile powered plant is deemed appropriate
- Service exclusion zone has been determined and is understood
- A trained spotter is in place for all works between 6.4m and the exclusion zone for cables up to 66kV and an overhead services permit has been authorised
- Asset owners have been consulted for works in the vicinity of cables higher than 66kV and all specified controls are documented on the SWMS / permit and are in place
- Overhead cables have height markers where plant will travel beneath



### Striking a Concealed Service

- Determine the MPOZ and identify any structures within the zone
- Assess the potential for the plant to impact a structure and determine a suitable barrier or exclusion zone

## Monitoring

**The control measures for managing the risks associated with working near live services must be inspected to ensure that they are correctly applied and are effectively managing the risk.**