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31 March 2014

Mr Chris Pattas  
General Manager  
Network Operations and Development  
Australian Energy Regulator  
GPO Box 520  
Melbourne VIC 3001

Dear Mr Pattas

**Fire start reports under clause 5 of the F-factor Scheme Order 2011**

Jemena Electricity Networks is required to submit fire start reports to the Australian Energy Regulator by 31 March for each year based on the outcomes of the previous regulatory year.

The fire starts for 2013 is set out in Attachment 1.

If you have questions in relation to this report or would like to discuss further, please contact David Spears on (03) 8544 9614 or by email at [david.spears@jemena.com.au](mailto:david.spears@jemena.com.au).

Yours sincerely,

A handwritten signature in blue ink, appearing to read "Richard Twisk".

Richard Twisk  
General Manager Electricity Network

## Attachment 1

### Jemena Electricity Networks Fire Start Report for 2013

#### 1. Background

Under clause 5(1) of the F-factor Scheme 2011 (**F-factor Order**), Jemena Electricity Networks is required to submit fire start reports to the Australian Energy Regulator by 31 March for each year based on the outcomes of the previous regulatory year.

Jemena Electricity Networks (**JEN**) identify, monitor, analyse, investigate and report on all known fires related to its electricity network assets. These fire starts are investigated and reported by JEN. Recommendations arising out of the investigations are assigned to responsible persons for implementation. Fire starts are internally reported as well as being reported to relevant external authorities.

#### 2. Analysis

An analysis of the fire starts on the JEN network in 2013 identified that:

- 82.5% of all fire starts did not result in grass or vegetation fires;
- 62.6% of all fire starts were pole top and crossarm fires whilst a further 9.8% were contained within the control boxes of public lighting luminaries; and
- 94.5% of all fire starts occurred within the Country Fire Authority (**CFA**) designated low bushfire risk area;
- Fire starts caused by trees, animals and lightning strikes were relatively low:
  - 3.3% of fire starts were caused by a tree, or part of a tree, falling upon or coming into contact with the distribution system;
  - 2.2% of fire starts were caused by a person, bird, reptile or other animal coming into contact with the distribution system; and
  - 2.2% of fire starts were caused by lightning striking the distribution system.

Jemena is committed to working towards reducing the number of pole top fires across the network in the most efficient and cost effective manner. It is noteworthy, pole top and crossarm fire mitigation is a key program of work in Jemena to achieve the strategic objectives relating to safety, environment, network reliability, supply quality and maintaining network asset value.

Condition monitoring of pole top structures and replacement program is an essential part of JEN's management of this group of assets. Jemena has programs in place to reduce the population of sub-transmission and high-voltage timber crossarms, replacing them with steel, and the implementation of pole top hardware, such as polymeric insulators, all aimed at reducing the instance of pole top fires.

Jemena committed in 2010 to replace 2,835 pole top structures over the 2011-15 period as part of its pole top fire mitigation program as well as an additional 14,117 pole top structures based on age and condition (which concurrently reducing pole top fire risks) and is on track to deliver against these commitments.

It is noteworthy that pole top fire events are highly dependent on environmental conditions. A specific sequence of conditions generally increases the instances of pole top fires on electricity network. Typically, high numbers of fires occur after prolonged periods of hot dry weather where wooden structures are very dry and there is usually high level of air borne pollutants. The air pollutants are generally from very dry land conditions where the soil has been exposed and any nearby bushfires. The first light rain that falls after the dry period on the dust covered pole top insulators slight wets the pollutants and cause arcing between the electricity conductors and the wooden structures. The arcing causes pole top fires. It is this unique combination of dust and light rain, which is not sufficient to wash away the dust completely that causes these pole top and crossarm fires.

The most significant Pole Top Fire events have occurred in 2006, 2007, 2009 and 2013.

JEN will continue these activities in 2014 with a clear objective to minimise the number of fire starts associated with network assets.

### 3. Definitions

JEN is informed by the following definitions in the preparation of this fire start report.

#### **Fire Hazard (Danger) Rating**

JEN has utilised the CFA Fire Danger Ratings as defined by the Country Fire Authority (**CFA**) and published on the CFA website.

#### **Bushfire Risk Area**

JEN has used the definition of hazardous bushfire risk area in the Electricity Safety Act 1998.

Hazardous bushfire risk area means an area:

- (a) to which a fire authority has assigned a fire hazard rating of "high" under section 80, whether or not the area is an urban area; or
- (b) that is not an urban area (other than an area a fire control authority has assigned a fire hazard rating of "low" under section 80);

#### **Feeder Classifications**

JEN has utilised the feeder classifications that have been defined for the service target performance incentive scheme (**STPIS**). Feeders are classified as central business district (**CBD**), Urban, Rural Short or Rural Long. JEN's network contains only Urban and Rural Short feeders. The STPIS definitions are:

- (a) CBD – supplies predominantly high rise commercial buildings, supplied by a predominantly underground distribution network containing significant interconnection and redundancy compared to urban areas;
- (b) Urban – not a CBD feeder, with actual maximum demand over the reporting period per total feeder route length greater than 0.3 MVA/km;
- (c) Rural short – not a CBD or Urban feeder with a total feeder route length less than 200km and;
- (d) Rural long – not a CBD or Urban feeder with a total feeder route length greater than 200km

## **Fire Start by Asset and Fire Start by Category**

JEN has utilised the fire start by asset definitions in accordance with Energy Safe Victoria (**ESV**) reporting guidelines. These are documented in “*ESV Distribution Business Electricity Safety Performance Reporting Guide, April 2011*”

### **Kind of Fire Start**

JEN has used the fire start definition under Clause 4 of F-factor Order. Under clause 4 of the Order, fire starts covered by an F-factor scheme determination are any fire:

- (a) That starts in or originates from a distribution system;
- (b) Started by any tree, or part of a tree, falling upon or coming into contact with a distribution system;
- (c) Started by any person, bird, reptile, or other animal in or on a distribution system;
- (d) Started by lightning striking a distribution system or a part of a distribution system; and
- (e) Started by any other thing forming part of or coming into contact with a distribution system; or
- (f) Otherwise started by a distribution system.

Additionally, JEN has used the definition on ‘fire’ in the AER regulatory information notice (RIN) template<sup>1</sup>:

*"Fire" should be interpreted using its common meaning and can be defined as a process in which substances combine chemically with oxygen from the air and typically give out bright light, heat and smoke. A fire should be recorded where there is evidence of smoking, charring, scorching, burning or any other evidence that a fire had occurred.*

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<sup>1</sup> Dated 8 August 2011

#### 4. Number of fire starts

JEN has summarised the data into tables to show the percentage and actual number of fire starts in the following categories:

- CFA Fire Hazard Rating
- Bushfire Risk Area
- Feeder Classification
- Fire Start by Category
- Kind of Fire Start
- Fire Start by Asset

Table 1: Number of fire starts by Fire Hazard Rating

CFA Fire Hazard Rating (weather conditions on the day of the fire)	No of Fires	% of Fires
Severe	1	1.0
Very high	8	8.8
High	57	62.7
Low-moderate	9	9.9
Unavailable <sup>2</sup>	16	17.6
<b>Total</b>	<b>91</b>	<b>100</b>

Table 2: Number of fire starts by Bushfire Risk Area

Bushfire Risk Area	No of Fires	% of Fires
Hazardous Bushfire Risk Area (HBRA)	5	5.5
Low Bushfire Risk Area (LBRA)	86	94.5
<b>Total</b>	<b>91</b>	<b>100</b>

Table 3: Number of fire starts by Feeder Classification

Feeder Classification	No of Fires	% of Fires
Rural	1	1.0
Urban	90	99.0
<b>Total</b>	<b>91</b>	<b>100</b>

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<sup>2</sup> Fire Hazard Ratings are only maintained by the Bureau of Meteorology for the period January to April and November to December 2013

Table 4: Number of fire starts by Category

Fire Start by Category	No of Fires	% of Fires
Asset failures resulting in grass/vegetation fire	10	10.9
Grass/vegetation fires from assets (non-asset failures)	6	6.6
Asset failures resulting in asset fire (no grass/vegetation fire)	75	82.5
<b>Total</b>	<b>91</b>	<b>100</b>

Table 5: Number of fire starts by Kind of Fire Start

Kind of Fire Start	No of Fires	% of Fires
Started by any tree, or part of a tree, falling upon or coming into contact with a distribution system	3	3.3
Started by any person, bird, reptile or other animal coming into contact with a distribution system	2	2.2
Started by lightning striking a distribution system or a part of a distribution system	2	2.2
Started by any other thing forming part of or coming into contact with a distribution system	84	92.3
Otherwise started by a distribution system	0	0
<b>Total</b>	<b>91</b>	<b>100</b>

Table 6: Number of fire starts by Asset

Fire Start by Asset	No of Fires	% of Fires
Any additional fires, caused by any asset failure, not reported to the ESV and required to be reported by the f-factor Order	0	0
Any fire triggered by any asset failure caused by lightning	0	0
Fire starts in grass/vegetation resulting from animal contact with network assets	2	2.2
Fire starts in grass/vegetation resulting from other causes (vehicle strikes, vandalism etc.)	1	1.1
Fire starts in grass/vegetation resulting from trees contacting network assets	3	3.3
HV fuse	0	0
Oil-filled plant	1	1.1
Other assets <sup>3</sup>	27	29.7
Pole and cross arm fire	57	62.6
<b>Total</b>	<b>91</b>	<b>100</b>

<sup>3</sup> Other Assets includes: 9 public lighting control boxes, 5 overhead services, 3 krone boxes, 2 overhead conductor connections, 2 LV cables, 1 fused junction box, 1 paralleling pillar, 1 HV fuse, 1 span of LV mains, 1 span of public lighting switch wire and 1 instance of an LV fused isolator.

## 5. Appendix 1 – Table of all Fire Starts in 2013

Fire Start No	Date	Time	Location	Fire Start by ESV category	Fire Start by Asset	Kind of Fire Start by F-factor Order - Clause 4
Fire Start 1	8/01/2013	21:01	Catherine St, Coburg North. South of Bakers Road	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 2	12/01/2013	13:23	Merri Creek Reserve Sth of Cooper St, Campbellfield	Asset failures resulting in grass / vegetation fire	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 3	14/01/2013	19:32	Burke Rd, Ivanhoe	Asset failures resulting in grass / vegetation fire	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 4	15/01/2013	9:57	Somerville Rd, Brooklyn	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 5	17/01/2013	18:05	Shields St, Corner O'Shannessay St Sunbury	Asset failures resulting in grass / vegetation fire	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 6	20/01/2013	3:48	Cliffords Road Corner King St, Somerton	Grass/vegetation fires from assets (non-asset failures)	Fire starts in grass / vegetation resulting from animal contact with network assets	Started by any person, bird, reptile or other animal coming into contact with a distribution system
Fire Start 7	24/01/2013	11:11	Rosanna Rd, Heidelberg	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 8	27/01/2013	9:24	Burleigh St, Spotswood	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 9	27/01/2013	5:20	Hyde St North of Francis St, Yarraville	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 10	27/01/2013	5:41	Easement North of Simcock Avenue, Newport	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 11	27/01/2013	4:29	Collins St, West of Victoria St, Williamstown	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 12	27/01/2013	4:29	North of Swanston & Collins St, Williamstown	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system



Fire Start No	Date	Time	Location	Fire Start by ESV category	Fire Start by Asset	Kind of Fire Start by F-factor Order - Clause 4
Fire Start 13	27/01/2013	10:12	Newlands Rd, Coburg North	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 14	27/01/2013	7:48	Opposite Stanger St on Francis Street, Yarraville	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 15	27/01/2013	8:46	Corner Newlands Road and Norfolk Court, Coburg North	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 16	27/01/2013	7:18	Athol Street, Braybrook	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 17	27/01/2013	9:44	The Circuit, Tullamarine	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 18	27/01/2013	10:32	Whitehall St, Cnr Parker, Footscray	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 19	27/01/2013	10:04	Strathmerton St, Reservoir	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 20	28/01/2013	22:46	Crevelli St, Reservoir	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 21	29/01/2013	2:40	Pickett St, Reservoir	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 22	29/01/2013	3:29	Purinuan Rd, Reservoir	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 23	29/01/2013	17:39	Hyde St, Yarraville	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 24	29/01/2013	6:16	Plateau Rd, Reservoir	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system

Fire Start No	Date	Time	Location	Fire Start by ESV category	Fire Start by Asset	Kind of Fire Start by F-factor Order - Clause 4
Fire Start 25	29/01/2013	6:08	Athol St (outside Christian college), Braybrook	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 26	29/01/2013	15:16	Paramount Rd, West Footscray	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 27	29/01/2013	13:59	Byron Ave Corner Lincoln Dr, East Keilor	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 28	29/01/2013	1:11	Cranwell St, Braybrook	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 29	29/01/2013	3:57	Lakeside Ave, North of Thrower Ave, Reservoir	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by lightning striking a distribution system or a part of a distribution system
Fire Start 30	29/01/2013	20:28	Whitehall St North of Somerville Rd, Yarraville	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 31	29/01/2013	6:03	Hume Hwy, Campbellfield	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 32	29/01/2013	9:43	Hudsons Rd, Sportswood	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 33	31/01/2013	18:51	The Fairway, Kingsbury	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by lightning striking a distribution system or a part of a distribution system
Fire Start 34	31/01/2013	18:18	Stephen St, Yarraville	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 35	31/01/2013	20:38	Ambrose St, Dallas	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 36	5/02/2013	22:24	Cnr Fogarty and Cranbrook St, Yarraville	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system

Fire Start No	Date	Time	Location	Fire Start by ESV category	Fire Start by Asset	Kind of Fire Start by F-factor Order - Clause 4
Fire Start 37	5/02/2013	13:39	Adeline St, Williamstown Nth	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 38	10/02/2013	14:29	Barry Rd, Coolaroo	Asset failures resulting in grass / vegetation fire	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 39	11/02/2013	18:18	Geelong Rd, Sth side West of tee to Geelong-Francis	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 40	17/02/2013	17:26	Berkeley Ave Heidelberg	Asset failures resulting in grass / vegetation fire	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 41	18/02/2013	10:00	Lynch Rd, Fawkner	Asset failures resulting in grass / vegetation fire	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 42	18/02/2013	17:12	Sunshine Rd, West Footscray	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 43	19/02/2013	23:35	Somerville Rd, South side West McDonald	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 44	19/02/2013	18:51	Rex Rd, Campbellfield	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 45	19/02/2013	14:59	Francis St, Yarraville	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 46	19/02/2013	14:18	Anzac Ave, (in parker reserve), Coburg North	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 47	19/02/2013	14:20	Corner Munro and Wellington, Coburg	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 48	19/02/2013	14:20	Geelong Rd, West Footscray	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system

Fire Start No	Date	Time	Location	Fire Start by ESV category	Fire Start by Asset	Kind of Fire Start by F-factor Order - Clause 4
Fire Start 49	19/02/2013	13:49	Olympia Street, Tottenham	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 50	19/02/2013	13:56	Roberts Rd, South of Wattle, West Footscray	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 51	19/02/2013	15:25	Thorpdale Ave, Coolaroo	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 52	20/02/2013	19:37	Paisley St, Coolaroo	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 53	21/02/2013	10:18	Inside Sydenham Terminal Station	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 54	22/02/2013	12:34	Gould St, Coburg	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 55	23/02/2013	13:35	Cnr Palana and Pengana St, Glenroy	Asset failures resulting in grass / vegetation fire	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 56	24/02/2013	15:20	Lynch St, Footscray	Asset failures resulting in asset fire (no grass / vegetation fire)	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 57	26/02/2013	16:42	Purinuan Rd, Reservoir (Corner of Laurie St and Purinuan Rd)	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 58	3/03/2013	10:26	McEwan Road, Heidelberg Heights	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 59	4/03/2013	15:37	Craigieburn Rd, Wollert	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 60	9/03/2013	15:21	Stewart St, Braybrook	Asset failures resulting in asset fire (no grass / vegetation fire)	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system

Fire Start No	Date	Time	Location	Fire Start by ESV category	Fire Start by Asset	Kind of Fire Start by F-factor Order - Clause 4
Fire Start 61	12/03/2013	19:06	Clifton Street, Essendon	Asset failures resulting in grass / vegetation fire	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 62	15/03/2013	13:14	Intersection Ryder and Jackson, Niddrie	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 63	19/03/2013	23:21	Quinn Gr, Keilor East	Asset failures resulting in asset fire (no grass / vegetation fire)	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 64	21/03/2013	9:42	Morgan St, Braybrook	Grass/vegetation fires from assets (non-asset failures)	Fire starts in grass / vegetation resulting from trees contacting network assets	Started by any tree, or part of a tree, falling upon or coming into contact with a distribution system
Fire Start 65	22/03/2013	12:05	Melville Rd, Pascoe Vale	Asset failures resulting in asset fire (no grass / vegetation fire)	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 66	17/04/2013	8:17	Paramount Rd, Tottenham	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 67	6/06/2013	15:35	Easement North of Simcock Ave, Newport	Asset failures resulting in grass / vegetation fire	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 68	11/06/2013	14:30	Lambeck Drive, Tullamarine	Asset failures resulting in grass / vegetation fire	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 69	15/06/2013	0:40	Highview Rd, Preston (Cnr Murray Rd)	Asset failures resulting in asset fire (no grass / vegetation fire)	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 70	19/06/2013	19:10	Kingsville St, Kingsville	Asset failures resulting in asset fire (no grass / vegetation fire)	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 71	27/06/2013	21:43	Hume Hwy overpass of Potter St, Craigieburn	Grass/vegetation fires from assets (non-asset failures)	Fire starts in grass / vegetation resulting from animal contact with network assets	Started by any person, bird, reptile or other animal coming into contact with a distribution system
Fire Start 72	28/06/2013	10:13	Terror Crt, Keilor Park	Grass/vegetation fires from assets (non-asset failures)	Fire starts in grass / vegetation resulting from other causes (vehicle strikes, vandalism etc)	Started by any other thing forming part of or coming into contact with a distribution system

Fire Start No	Date	Time	Location	Fire Start by ESV category	Fire Start by Asset	Kind of Fire Start by F-factor Order - Clause 4
Fire Start 73	4/07/2013	19:01	Chicago Street, Maribyrnong	Asset failures resulting in asset fire (no grass / vegetation fire)	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 74	13/07/2013	13:56	Ovens St, Yarraville	Asset failures resulting in asset fire (no grass / vegetation fire)	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 75	15/07/2013	13:04	Assembly Drive, Tullamarine	Asset failures resulting in asset fire (no grass / vegetation fire)	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 76	18/07/2013	13:52	Crefden St, Maidstone	Asset failures resulting in asset fire (no grass / vegetation fire)	Oil-filled plant	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 77	18/07/2013	14:41	Konagaderra Road, Clarkefield	Grass/vegetation fires from assets (non-asset failures)	Fire starts in grass / vegetation resulting from trees contacting network assets	Started by any tree, or part of a tree, falling upon or coming into contact with a distribution system
Fire Start 78	13/08/2013	13:28	Ayr Street, Reservoir	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 79	27/08/2013	7:06	Kensington Rd, Kensington	Asset failures resulting in asset fire (no grass / vegetation fire)	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 80	4/09/2013	21:06	Ballarat Rd, Maidstone	Asset failures resulting in asset fire (no grass / vegetation fire)	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 81	4/10/2013	5:25	Rosamond Rd Corner Williamson Rd, Maribyrnong	Asset failures resulting in asset fire (no grass / vegetation fire)	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 82	30/10/2013	22:23	Plenty Rd, Preston	Asset failures resulting in asset fire (no grass / vegetation fire)	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 83	8/11/2013	15:04	Napier Park in Woodland Street, Strathmore	Asset failures resulting in asset fire (no grass / vegetation fire)	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 84	8/11/2013	15:04	Madel Ave Strathmore	Asset failures resulting in asset fire (no grass / vegetation fire)	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system

Fire Start No	Date	Time	Location	Fire Start by ESV category	Fire Start by Asset	Kind of Fire Start by F-factor Order - Clause 4
Fire Start 85	8/11/2013	15:04	Napier Park in Woodland Street, Strathmore	Asset failures resulting in asset fire (no grass / vegetation fire)	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 86	11/11/2013	6:10	Nathan Dr, Campbellfield	Asset failures resulting in asset fire (no grass / vegetation fire)	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 87	26/11/2013	8:47	Metrolink Cct, Campbellfield	Asset failures resulting in asset fire (no grass / vegetation fire)	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 88	29/11/2013	12:14	Bayview Tce, Ascot Vale	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 89	2/12/2013	15:30	Rosehill Road, Niddrie	Grass/vegetation fires from assets (non-asset failures)	Fire starts in grass / vegetation resulting from trees contacting network assets	Started by any tree, or part of a tree, falling upon or coming into contact with a distribution system
Fire Start 90	4/12/2013	2:09	Melbourne Rd, Williamstown	Asset failures resulting in asset fire (no grass / vegetation fire)	Pole and crossarm fire (including 'smoldering' or 'smoke')	Started by any other thing forming part of or coming into contact with a distribution system
Fire Start 91	20/12/2013	2:44	Camp Rd, Broadmeadows	Asset failures resulting in asset fire (no grass / vegetation fire)	Other Assets	Started by any other thing forming part of or coming into contact with a distribution system