# Road Safety An Organisation's Perspective

# Tadhg Crowley ESB Safe Driving Programme

**June 2010** 



## **ESB** – The Company

- The leading electricity utility in Ireland, established in 1927
- Responsible for 39% of generation in All Island Electricity Market
- Distribution system owner and operator, transmission system owner in Rol
- Investments, operation contracts, consultancies in 25 countries (2008)
- Turnover of €3.5bn (2008)
- Employs 7,400 staff





### **Control Our Most Serious Hazards**

Brian Madden

John Begley

South East

Safety Committee

Worken McQuely

Kieran McAulev

Networks Support

Safety Officer

Midlands & West

Safety Committee

#### **Electricity**

- ✓ Implement the Five Golden Ru
- Maintain the Close Proximity
- Implement Live Work Procedu
- Verify Polarity and Rotation w
- ✓ Implement Cable Identification
- Wear appropriate Arc Protecti

#### **Driving**

- Wear Seat Belts at all times w
- Drive carefully within Speed I for road conditions and fatigu
- ✓ Never drive under influence of
- ✓ Secure all loads carefully
- Carry out basic vehicle check

Michael Hughes Technical Safety Specialist

Domine O'BBER Of Gunne

Michael J. Hugher

Dominic O'Brien

Distribution East

Networks Projects Manager

Signed

P.J. Rice

North East

Safety Committee

#### Kienon Cogn

South West

Safety Committee

-656ml

Dublin Central/South &

Inchicore.Safety Committee

Tony Connolly

Kieran Cogan Manager

Paddy Murray

Representative

T.E.E.U.

Technical Development

Ger Buckley Health & Safety Manager Chairman, ESB Networks

#### / Cops

Junior Coss A.T.G.W.U. Representative

Gus Connolly

Supervisor

Technical & Śafety

James McHugh

Safety Committee

Contracting Partners

North West

#### Complete all Pre-Climbing checks

Working at Heights

pole top

John Lyons Mid West

Safety Committee

Man Staustan Seamus Walsh Alan Staunton Network Projects

Operations Asset Management

David Carral

Asset Management

Dave Carraher

#### nd Equipment

vs when necessary

rest equipment

ucket or MEWP olled Entry Zone

instrap engaged when

e use ntil' date – where applicable ts of equipment h respect quipment

#### Cabling

- Check for e.g. services befor
- Shutter/Protect when below
- Protect edges against encroa
- Implement correct cable pulling methods
- Stay clear of equipment under tension
- ✓ Erect suitable signage and barriers

LOOKOUT FOR YOURSELF ...... LOOKOUT FOR EACH OTHER

Johnny Shine

ESB Networks

Executive Director

✓ Implement the correct lifting methods

ical Lifting

nt before use equipment

clusion Zone

- Extend stabilisers fully
- Wear the appropriate PPE



## **ESB Journal of July 1964**

#### SAFETY AWARDS FOR DRIVERS



The District Manager, Dublin No. 1, Mr. R. A. H. Jackson, at a ceremony in Fleet Street recently, presented three members of the Dublin No. 1 staff with Certificates and Silver medals

from the Safety First Association of Ireland for five years' accident-free driving in the service of the Board. In presenting the awards, Mr. Jackson said that their record was particularly noteworthy in view of the volume of traffic in and around the city.

Photographed at the presentation ceremony are (l.-r.): T. Fitzpatrick, Driving Supervisor; J. A. Murphy, Deputy District Engineer; Mr. Jackson, and award winners J. Swaine, L. Duffy (who retires in September after over 30 years as a driver) and J. Brennan.



## **ESB Fleets**

#### **1900 Commercial Vehicles**

50M km/ annum

4000+ people driving cars on business

22M km/annum

#### **Commuting**

81% Motor Vehicles;

7% Public Transport

11% Walk/ Bicycle

#### <u>Overseas</u>

Staff working abroad on consultancy









# WHAT HAVE WE BEEN DOING TO MANAGE DRIVING RISK?

- Senior Leadership
- Awareness / Education programmes
- Driving Policies / Enforcement
- Training / Assessment
- Vehicle Specifications
- Collision Reporting



## Safe Driving Steering Group

EDT Sponsor
Johnny Shine

**ESB Networks** 

Tom Reilly, Conal Bonnar,

Noel Rushe

**Energy Solutions** 

Arthur Byrne,

**ESB Energy** 

**International** 

Pat Gilbride

Mike Fitzgerald

Finance &

**Commercial** 

William Caffrey

Corporate

Centre

Ronan Collier

Supported by Tadhg Crowley and Grainne Coogan, ESB Safe Driving Bureau



## **Education / Awareness**

# SAFETY - IT'S MY RESPONSIBILITY VEHICLE SAFETY CHECK LIST



# FLEET DRIVERS This 60 seconds could save a life!

#### **DRIVERS CHECK DAILY:**



**MIRRORS FOR ALL-ROUND VISIBILITY** 



**WINDSCREEN WIPERS & WASHERS** 



LIGHTS & HORN (In Working Order?)



**BLEEPER WHEN REVERSING** 



FUEL LEVEL



SECURITY OF LOAD & EQUIPMENT



TYRES (Damage, Slow Punctures?)



DASHBOARD WARNING LIGHTS



WHEEL NUT INDICATORS



SEAT BELTS

#### **DRIVERS CHECK WEEKLY:**



TYRES (Pressure, Wear, Tread Depth 1.6mm?)



WINDSCREEN (Cracks or Chips?)



LIGHTS/BEACONS (Operation & Cleanliness?)



VEHICLE TOOLS (Jack, Wheel Brace, Fire Ext., 1st Aid Kit, & Warning Triangles?)



OIL & FLUID LEVELS



WHEEL NUTS



DRAIN AIR TANKS (where appropriate)



HOUSE KEEPING (Clean & Tidy Vehicle?)





#### DRINK / DRUGS AWARENESS TRAINING

Working with HSE and our own Employee Assistance
Officers to develop a programme for all staff to raise awareness of Drink & Drugs and driving

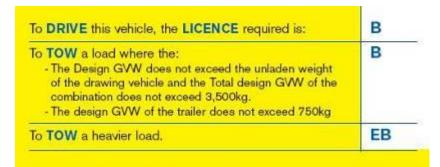




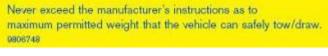
## **Policies / Procedures**



**Driving Licence Requirements.** 



Reverse In – Drive Out Policy







Reversing



**Vehicle Safety Checks** 

Consolidation of driving policies into a Drivers handbook



#### **ENFORCEMENT - Audits**

**Seat Belt Audits** 

**Vehicle Audits** 

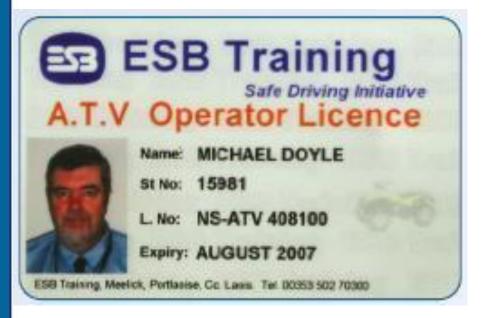
**Driving Audits** 

**Safety Audits** 





## **Driver Training**



**Advanced Driver Training** 

**Specialist Vehicle Training** 

**ATV Training** 

**4X4 Training** 

Cable Winch Op. training

**Hoist training** 

**Crane Truck Training** 

**Driver Development Training** 



**Specialised Training** 





## **Vehicle Specifications**

FISH EYE MIRRORS
REVERSING BEEPERS
REVERSING SENSORS
REVERSING CAMERAS





Reversing Camera Set RV 5100





## **Maintenance**

Preventative Maintenance Regime

Planned and Unplanned

Vehicle Defect Report No.  Date: 1 10 07	228903	Networks
Reported by; (driver name)	Reg/Fleet No.	Odometer reading:
Details of defects; (driver complete)	1) No ZEAR	LIGHTS
2	SEAT GELT	- FHILTY
Is this a reoccurring defect ? Yes (driver complete)	No (tick or	ne box)
State ESB workshop; (driver complete) [AUA9	HT or repairer name;	
Signature of defect repairer:	Sean Blogs Da	te: 1/10/07



# **Collision Investigation**

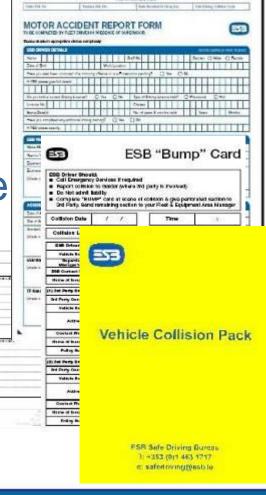
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Reporting all collisions

Investigation as per procedure

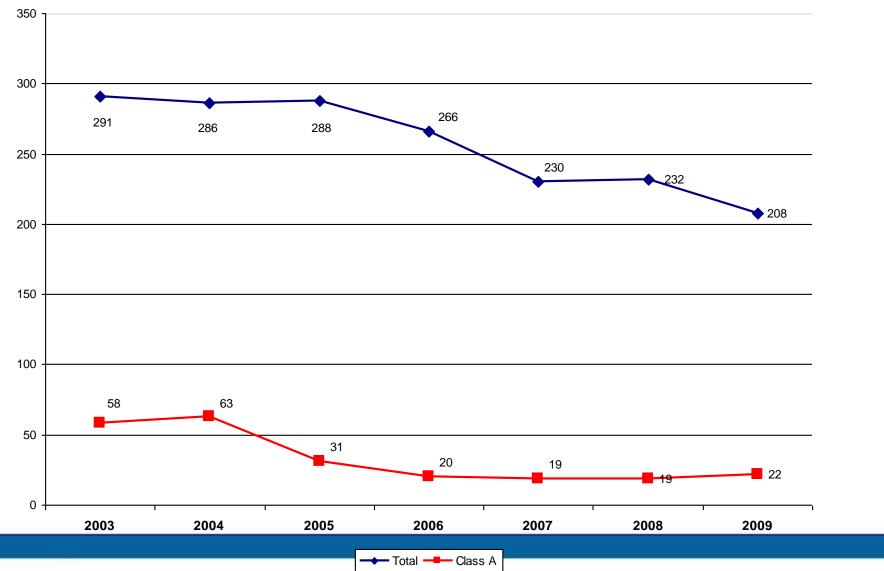
Reports

Use of external investigators



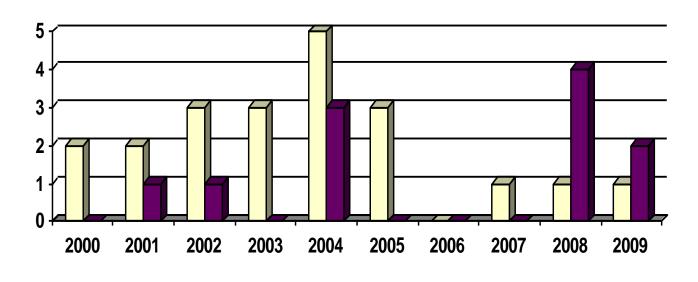


## **Collisions ESB Commercial Vehicles**





# Fatalities to the Public 2000 - 2009



□ Public Electrical (ESB Network) ■ Public Road Traffic Collision



### **Financial Benefits**

- Reduction in Fatalities = €11.6M
- Reduction in Class A (Serious) Collisions = €17M
- Motor Insurance premiums fell to 15% of 2003 levels

Table A2: Total Cost of Road Collisions in 2007

Туре	Number of collisions	Cost per collision	Total cost (€)
Fatal	309	€2,891,435	€893,453,472
Serious	618	€386,286	€238,724,498
Minor	4,540	€38,045	€172,725,207
Material Damage	23,770	€3,044	€72,346,752
Total	29,237	N/A	€1,377,249,928

<sup>1</sup> Source of GNP per person employed Growth rate = CSO

Source Goodbody Economic Consultants, Report for Dept. Transport.



## Safe Driving Programme 2009 - 2011

- KPIs set e.g.
  - Zero fatalities as a result of our driving activities.
  - 50% reduction in Class A collisions in the Commercial fleets
- Integration of Safe Driving into Business Line Health & Safety Improvement Plans
- Specific targets including Risk Assessment and Advanced Driver Training
- Road Safety Awareness for all ESB staff



## Safe Driving Programme 2009 - 2011

Strategic Alliance



ESB Commitment to the European Road Safety Charter.





# Risk Assessment for Transport and Road use

### Guidance elements

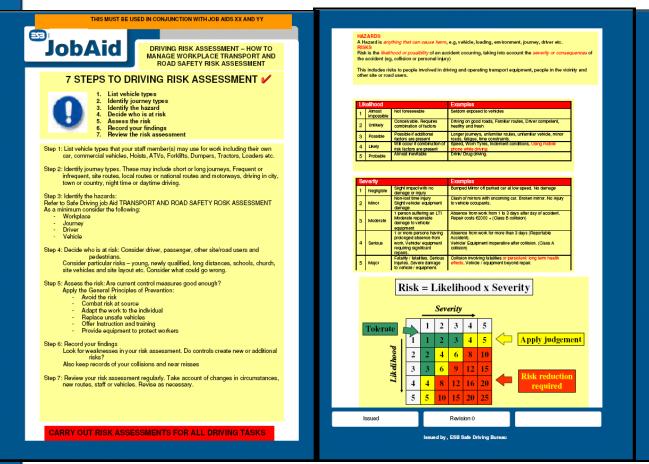
- Workplace (HSA)
- Journey (RSA)
- Vehicle (HSA/RSA)
- Driver (HSA/RSA)

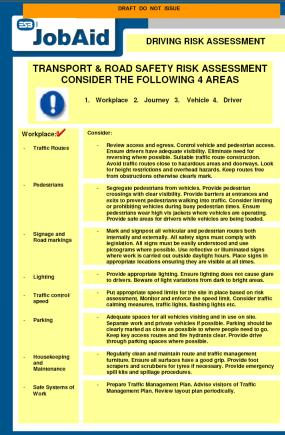
### Our Experience

- Complex
- Some outside immediate control of management
- Useful exercise to help determine significance of risk



#### Risk Assessment – Job Aids







<b>R A No.</b> CC10-10	
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#### RISK ASSESSMENT

Associated RA No. / Continuation sheets:

Task description:	description: Driving from Head Office to other ESB locations, third party sites and meeting locations throughout Ireland				
Names of risk assessors:	Tadhg Crowley & Ronan Collier	People affected: 55	Expiry date: 06.06.2012		

Ref	Potential Hazard / Risk	NA	Т	AJ	RR
1	WORKPLACE				
2	Traffic Routes		Х		
3	Pedestrians		Х		
2 3 4 5	Signage & Road markings		Х		
-	Lighting		Х		
6	Traffic Control/ Speed			Χ	
7	Parking		Χ		
8	Housekeeping & Maintenance		Х		
9	Safe System of Work		Х		
10	JOURNEY				
11	Length of Journey			Х	
12	Route/ Road Types			Х	
13	Scheduling/ Start & Finish Times				Х
14	Break Opportunities		Х		
15	Weather			Х	

Ref	Potential Hazard / Risk	NA	Т	AJ	RR
16	Lighting		Х		
17	Traffic & Pedestrian Density			Χ	
18	Parking			Х	
19	VEHICLE				
20	Suitability			Χ	
21 22 23 24 25	Condition			Х	
22	Safety Equipment			Х	
23	Safety Critical Information			Χ	
24	Ergonomic considerations	i		Х	
25	Reversing Aids	•		Х	
26	Crash Resistance			Х	
27	Distractions				Х
28	Familiarity			Х	
29	Purchasing		Х		
30	Maintenance: - Driver checks	Ì		Х	
	- Statutory inspections				
	- Scheduled maintenance	1			

Ref	Potential Hazard / Risk	NA	Т	AJ	RR
31	Loading		Х		
32	Safe System of Work			Х	
33	DRIVER				
34	Selection & Competency				Х
35	Experience			Х	
36	Training			Х	
37	Use of Contractors	Χ			
38	Instruction & Information			Х	
39	Monitoring & Supervision		Х		
40	Fitness & Health		Х		
41	Stress & Fatigue			Х	
42	Attitude & Behaviour		Х		
43	Collision & Enforcement History			Χ	
44	Safe Systems of Work		Х		

Risk Rating:  $L=Likelihood\ (0-5)$ ,  $S=Severity\ (0-5)$ , R=Rating=LxS. If Rating is:  $I\ to\ 3=T\ (tolerable)$ ,  $4\ to\ 6=AJ\ (apply\ judgement)$ ,  $8-25=RR\ (reduce\ risk\ and\ re-assess)$ .

				Risk I	caung	
Ref	Specific Risk	Control Measures	Action by	L	S	R
13	Journey Scheduling/	Business travel should be avoided where possible, if travelling is required use public transport where possible. If driving	Line	1	5	5
	Start & Finish times	ensure that sufficient time is allowed for the journey and if necessary overnight stays.	Managers			
27	Vehicle Distractions	Mobile phones should not be used while driving. Pull overt periodically to check messages and make calls. Satnav	All who	1	5	5
		systems should not be interfered with while driving. Pull over to make changes.	drive for			
			work.			
34	Driver selection &	All Drivers must hold full licence. Licence must be checked annually for suitability. All drivers to complete Road Risk	Line	1	5	5
	competency	to determine their risk rating. Higher risk drivers to get Advanced Driver training.	managers			

Check that all hazards / risks identified as requiring control measures have been reduced to an acceptable level.

	Risk Assessor signatures:	Jadhg Crowley	Ronan Collier	Date: 01/08/2009
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#### REMEMBER TO COMMUNICATE THIS RISK ASSESSMENT TO ALL PERSONNEL AFFECTED

Display at workplace

Ensure this is the up-to-date version by comparing with the electronic copy in the SMS 2.4 Risk Assessment Register



### **R A No.** CC10-10

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Names of risk assessors: Tadhg Crowley & Ronan Collic

Ref	Potential Hazard / Risk	NA	Т	AJ	RR
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2	Traffic Routes		Х		
3	Pedestrians		Χ		
4	Signage & Road markings		Х		
5	Lighting		Χ		
6	Traffic Control/ Speed			Χ	
7	Parking		Χ		
8	Housekeeping & Maintenance		Х		
9	Safe System of Work		Х		
10	JOURNEY				
11	Length of Journey			Χ	
12	Route/ Road Types			Х	
13	Scheduling/ Start & Finish Times				Х
14	Break Opportunities		Χ		
15	Weather			Х	



_				Risk Rating		
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		Chook that all haranda / violes identified as your lines control magazines have been reduced to an accompable level				

Check that all hazards / risks identified as requiring control measures have been reduced to an acceptable level.

Risk Assessor signatures: Jadhg Crowley	Ronan Collier	Date: 01/08/2009
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## Conclusions

- Driving constitutes a necessary part of our working day and is a significant business risk that must be managed
- Safe Driving for business is good business
- ESB's objectives
  - Zero injuries / fatalities arising from ESB driving activities
  - Develop a life skill for our staff and bring safe driving into our homes
  - Contribute to the National Road Safety effort







# **Q&A Session**







# Thank You

# Slán Abhaile

