



WORKPLACE RISK ASSESSMENT

WOCRA Ref No:	2675
Version No:	25

Function:	Northern Line Operations
Group:	Northern Line (JNP Trains)
Location:	Northern Line
Activity:	Working in a train
	Normal Operations
Grades Covered:	Health and Safety Representative
	Instructor Operator
	Train Operator
	Trains Manager
Total number of Employees in these grades should be marked with the cross (X):	<input type="checkbox"/> 1 - 5 <input type="checkbox"/> 6 - 10 <input type="checkbox"/> 11 - 20 <input type="checkbox"/> 21 - 50 <input checked="" type="checkbox"/> > 50 <input type="checkbox"/> please specify
Date of Assessment:	18/10/2018
Validated by and Date of Validation:	22/11/2018
Grade of Employing Manager:	Train Operations Manager
Lead Assessor:	Anthony Smith TM

Participant(s): Name (Grade / Position):

Gary Houghton (H&S Rep) RMT

Julian Vaughan (H&S Rep) ASLEF

General Comments:

18/10/2018 - WTT57 introduction of time table - Review of Trains Operator traveling back to East Finchley Depot and Golders Green Depot on the cushion after completing the following Duties 831,834,480,483,484 which books of between 23:39 - 00:26 Morden Platform / Depot.

20/8/2018 - Review of electronic advertising board at Angel. TU reps invited but declined to participate, delay in completing within WOCRA awaiting insights data, data received assessment completed. Board switched on 17/4/2018- August 2018 data from insights taken.

Location:	Northern Line
Activity:	Working in a train

No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
1	Slips / Trips / Falls	uneven / slippery surfaces or obstructed surfaces	Single	8 (every year)	8 (Moderate)	16, Medium

Description of Hazard (including Location/Grade Specific Issues):
 Uneven surfaces on platforms, tripping on litter / spillage in train, step plates of interconnecting doors while changing ends on turnaround, water in cab via M door. Driver unsteady on feet when the train pulls away

Controls and their Effectiveness [Y/P]:

- 1i Physical modifications - other (lighting,) [P]
- 2b Housekeeping - cleaning () [P]
- 3c Inspections - audits () [P]
- 5b Procedures / Stds - LU and TfL standards (hazard reporting system) [P]
- 6a Incident management - emergency preparedness plans (adverse weather plan) [P]
- 8a Info / Instruction - briefings / pre-start (local instructions) [P]
- 9a Uniform - LU uniform (suitable footwear) [P]
- 13a Training - initial () [P]

Persons particularly at risk (not grade):	Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:

Who / What Else Affected:

Topic Specific Assessments Required:

Lead Assessor's Recommendations:

Location:	Northern Line					
Activity:	Working in a train					
No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
2	Machinery/Equipment/Hand tools	struck / crushed / trapped etc. by machinery / equipment	Single	8 (every year)	8 (Moderate)	16, Medium
Description of Hazard (including Location/Grade Specific Issues):						
Body parts, e.g. fingers getting caught / injured in 'J' door, connecting doors, adjusting seat, lifting seats in saloon.						
Controls and their Effectiveness [Y/P]:						
1a Physical modifications - guarding / enclosures (fixed or adjustable, including temporary) () [Y]						
1c Physical modifications - maintenance (e.g. of vehicles / equipment) () [P]						
3b Inspections - pre-start checks / pre-use checks (by Alstom etc) [P]						
3c Inspections - audits () [P]						
5b Procedures / Stds - LU and TfL standards (hazard reporting system) [P]						
7i Communication - other (Reporting/Briefing) [P]						
8a Info / Instruction - briefings / pre-start (local awareness) [P]						
13a Training - initial () [P]						
Persons particularly at risk (not grade):			Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:			
Who / What Else Affected:						
Topic Specific Assessments Required:						
Lead Assessor's Recommendations:						

Location:	Northern Line					
Activity:	Working in a train					
No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
3	Electricity	contact with high voltage (> 240v) (working with/near high voltage)	Single	1 (less frequent than every 10 years)	14 (Severe)	15, Medium
Description of Hazard (including Location/Grade Specific Issues):						
Contact with live rails, e.g. whilst accessing trackside equipment.						
Controls and their Effectiveness [Y/P]:						
1a Physical modifications - guarding / enclosures (fixed or adjustable, including temporary) () [P]						
4a Safe systems of work - electrical insulation / isolation () [P]						
5a Procedures / Stds - Rule Book (Traction Current off if accessing track during traffic hours) [P]						
5a Procedures / Stds - Rule Book (Traction Current to be switched off.) [P]						
5b Procedures / Stds - LU and TfL standards (Current rules and procedures for track access remain for NT implementation) [P]						
6a Incident management - emergency preparedness plans (Line plans have been developed for areas affected) [P]						
7b Communication - train radio (Service Control to advise staff of location of stored rail (if relevant)) [P]						
7b Communication - train radio (Train radio and Connect handheld radio.) [P]						
8a Info / Instruction - briefings / pre-start (Local briefings) [P]						
8b Info / Instruction - publications e.g. manufacturer's instructions (Traffic Circular) [P]						
9a Uniform - LU uniform (suitable footwear) [P]						
13a Training - initial () [P]						
13b Training - competence assurance (CDP/refresher) [P]						
13c Training - refresher () [P]						
Persons particularly at risk (not grade):			Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:			
Who / What Else Affected:						
Topic Specific Assessments Required:						
Lead Assessor's Recommendations:						
Noted that train operators would not normally access trackside equipment, hazard applies to other operational grades.						

Location:	Northern Line					
Activity:	Working in a train					
No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
4	Health Hazard (Chemical)	exposure to dust / smoke / fumes (e.g. carbon monoxide)	Single	12 (every week)	4 (Minor)	16, Medium
Description of Hazard (including Location/Grade Specific Issues):						
Inhalation of dust in tunnels.						
Controls and their Effectiveness [Y/P]:						
1i Physical modifications - other (air conditioning) [P]						
3a Inspections - PGIs () [P]						
3d Inspections - local inspections () [P]						
5a Procedures / Stds - Rule Book (Reporting of Dust.) [P]						
5b Procedures / Stds - LU and TfL standards (purchasing / procurement) [P]						
14d Organisational support - LU specialist support (dust surveys by occupational hygiene) [P]						
Persons particularly at risk (not grade):			Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:			
Who / What Else Affected:						
Topic Specific Assessments Required:						
Lead Assessor's Recommendations:						
Recent episodes of dust ingress to cab caused by issues with vents and train speed changes, Alstom aware.						

Location:	Northern Line					
Activity:	Working in a train					
No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
5	Health Hazard (Physical)	exposure to hot / cold environment (e.g. in extreme weather conditions / working environment)	Single	10 (every month)	4 (Minor)	14, Low

Description of Hazard (including Location/Grade Specific Issues):
 Exposure to hot environment in summer months or cold environment in winter months.

Controls and their Effectiveness [Y/P]:

1i Physical modifications - other (train heating/cooling) [P]

5b Procedures / Stds - LU and TfL standards (Fault reporting, for issues with air con or cab heating) [P]

5h Procedures / Stds - Rule Book (DISI) [P]

9a Uniform - LU uniform (suitable for season) [P]

10n Equipment - other (cold/hot water dispenser units, welfare facilities) [P]

14a Organisational support - management support () [P]

Persons particularly at risk (not grade):	Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:

Who / What Else Affected:

Topic Specific Assessments Required:

Lead Assessor's Recommendations:

During extreme weather, employees are to report any adverse effects of the weather to their Duty Manager and request relief if unfit to continue in particular Mill Hill shuttles or if in need of a PNR.

Location:	Northern Line					
Activity:	Working in a train					
No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
6	Health Hazard (Physical)	inadequate ventilation / draughts	Single	13 (every day)	4 (Minor)	17, Medium
Description of Hazard (including Location/Grade Specific Issues):						
Exposure to draughts in train cab.						
Controls and their Effectiveness [Y/P]:						
1a Physical modifications - guarding / enclosures (fixed or adjustable, including temporary) (Door seals) [P]						
3c Inspections - audits (Alstom checks.) [P]						
5b Procedures / Stds - LU and TfL standards (hazard reporting system) [P]						
9a Uniform - LU uniform (Summer and winter garments available.) [P]						
10c Equipment - ventilation systems (e.g. local exhaust ventilation) (Air Con unit used for hot and cold ventilation.) [P]						
Persons particularly at risk (not grade):			Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:			
Who / What Else Affected:						
Topic Specific Assessments Required:						
Lead Assessor's Recommendations:						

Location:	Northern Line
Activity:	Working in a train

No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
7	Health Hazard (Physical)	exposure to noise	Single	13 (every day)	4 (Minor)	17, Medium

Description of Hazard (including Location/Grade Specific Issues):
 Exposure to noise from train wheel/"flats"/track screech, train compressors, loud radio, fire alarms, train whistle, noisy crowd, etc.

Controls and their Effectiveness [Y/P]:
 1c Physical modifications - maintenance (e.g. of vehicles / equipment) (including lubrication of tracks) [P]
 3a Inspections - PGIs () [P]
 5b Procedures / Stds - LU and TfL standards (engineering standards) [P]
 5b Procedures / Stds - LU and TfL standards (hazard reporting system) [P]
 12i PPE - hearing protection (Ear-plugs if required although Reqs questioned their suitability.) [P]
 14d Organisational support - LU specialist support (noise monitoring) [P]

Persons particularly at risk (not grade):	Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:

Who / What Else Affected:

Topic Specific Assessments Required:

Lead Assessor's Recommendations:
 Ear-plugs are available to staff who are affected when used however there is no obligation for them to be worn. G Houghton expressed concerns over the long term effects of loud noise and impact on hearing.

Location:	Northern Line
Activity:	Working in a train

No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
8	Health Hazard (Physical)	exposure to whole body vibration	Single	10 (every month)	8 (Moderate)	18, Medium

Description of Hazard (including Location/Grade Specific Issues):
 Exposure to whole body vibration and hand-arm vibration and increased lower back problems e.g. from defective tracks, worn dampers, poor suspension, defective T/op & instructor seat, etc. Increased acceleration

Controls and their Effectiveness [Y/P]:
 3a Inspections - PGIs () [P]
 3c Inspections - audits (Alstom checks) [P]
 5b Procedures / Stds - LU and TfL standards (engineering and purchasing / procurement) [P]
 5b Procedures / Stds - LU and TfL standards (reporting system in place) [P]
 8a Info / Instruction - briefings / pre-start (local awareness) [P]
 8b Info / Instruction - publications e.g. manufacturer's instructions (Occupational health support / physio) [P]
 8j Info / Instruction - other (temporary speed restriction) [P]
 14c Organisational support - TfL OH support of individuals (physiotherapy) [P]

Persons particularly at risk (not grade):	Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:

Who / What Else Affected:

Topic Specific Assessments Required:

Lead Assessor's Recommendations:
 No improve relating to T/Op seats

Location:	Northern Line
Activity:	Working in a train

No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
9	Ergonomics / task design	manual handling (e.g. lifting / twisting / pushing / pulling)	Single	10 (every month)	8 (Moderate)	18, Medium

Description of Hazard (including Location/Grade Specific Issues):
 Carrying bags and twisting / turning to operate controls within cab. MCS rotation. Operation of ATO start buttons.

Controls and their Effectiveness [Y/P]:
 5b Procedures / Stds - LU and TfL standards (engineering and purchasing / procurement, design of train cab) [P]
 5b Procedures / Stds - LU and TfL standards (hazard reporting system) [P]
 8a Info / Instruction - briefings / pre-start (local awareness. Procedures for operating back panel switches.) [P]
 8b Info / Instruction - publications e.g. manufacturer's instructions (Occupational health support) [P]
 13a Training - initial () [P]
 14c Organisational support - TfL OH support of individuals (physiotherapy, advice and support) [P]

Persons particularly at risk (not grade):	Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:

Who / What Else Affected:

Topic Specific Assessments Required:

Lead Assessor's Recommendations:
 It is noted that the ATO start buttons are poorly positioned, this will be mitigated when button positioning is changed and further review to be carried out once done, reps want it noted that there is currently no mitigation. Same for 15/12/2017

Location:	Northern Line					
Activity:	Working in a train					
No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
10	Ergonomics / task design	undertaking repetitive tasks (leading to upper limb disorder)	Single	6 (every three years)	4 (Minor)	10, Low
Description of Hazard (including Location/Grade Specific Issues):						
Repetitive twisting and turning to operate controls e.g. traction brake controller within cab.						
Controls and their Effectiveness [Y/P]:						
1i Physical modifications - other (Design of train cab) [P]						
5b Procedures / Stds - LU and TfL standards (Procedures regarding operation of back panel switches.) [P]						
8b Info / Instruction - publications e.g. manufacturer's instructions (Occupational health support) [P]						
13a Training - initial () [P]						
13b Training - competence assurance () [P]						
13c Training - refresher () [P]						
14c Organisational support - TfL OH support of individuals (physiotherapy, advice and support) [P]						
Persons particularly at risk (not grade):			Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:			
Who / What Else Affected:						
Topic Specific Assessments Required:						
Lead Assessor's Recommendations:						
TBTC normal operation but will need PM operation to maintain competencies.						

Location:	Northern Line					
Activity:	Working in a train					
No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
11	Ergonomics / task design	cramped / awkward / unstable / sustained position	Single	8 (every year)	4 (Minor)	12, Low
Description of Hazard (including Location/Grade Specific Issues):						
Operating train in awkward / cramped position for sustained periods of time.						
Controls and their Effectiveness [Y/P]:						
1i Physical modifications - other (Design of train cab) [P]						
8b Info / Instruction - publications e.g. manufacturer's instructions (Occupational health support) [P]						
13d Training - location specific (stock training) [P]						
14c Organisational support - TfL OH support of individuals (Occupational health support) [P]						
Persons particularly at risk (not grade):		Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:				
Who / What Else Affected:						
Topic Specific Assessments Required:						
Lead Assessor's Recommendations:						
This has reduced with introduction of TBTC.						

Location:	Northern Line
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Activity:	Working in a train
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No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
12	Other	any other specific hazard	Single	6 (every three years)	11 (Major)	17, Medium

Description of Hazard (including Location/Grade Specific Issues):
 High winds and poor visibility from foggy conditions or very heavy rain could result in inability of driver to see an obstruction on the track.

Controls and their Effectiveness [Y/P]:
 1c Physical modifications - maintenance (e.g. of vehicles / equipment) (Maintain window wash / wipers.) [P]
 5a Procedures / Stds - Rule Book (Adverse weather) [P]
 5b Procedures / Stds - LU and TfL standards (hazard reporting system) [P]
 7b Communication - train radio (HSCC to be advised if visibility reduces) [P]
 13a Training - initial () [P]

Persons particularly at risk (not grade):	Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:

Who / What Else Affected:

Topic Specific Assessments Required:

Lead Assessor's Recommendations:
 PM driving to be considered for adverse weather events as per rule book, SM to advise. Matter subject to review post event.

Location:	Northern Line					
Activity:	Working in a train					
No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
13	Other	any other specific hazard	Single	10 (every month)	4 (Minor)	14, Low
Description of Hazard (including Location/Grade Specific Issues):						
Strong reflection of sunlight (glare) may affect train operator's vision on open sections of track. Use of electronic advertising board at Angel Use of flash photography on stations may introduce optical readjustment.						
Controls and their Effectiveness [Y/P]:						
5a Procedures / Stds - Rule Book (Station staff rule book.) [P]						
5b Procedures / Stds - LU and TfL standards (flash photography prohibited on LU network; only partially effective as customers ignore the signs.) [P]						
10n Equipment - other (Adjust brightness of TOD when in PM. Dimmer facility not fully effective per TU reps) [P]						
10n Equipment - other (Correct use of Blinds.) [P]						
10n Equipment - other (Reduction of speed if in PM) [P]						
13c Training - refresher () [P]						
16a Other - any other specific control (Staffing platform) [P]						
Persons particularly at risk (not grade):		Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:				
Who / What Else Affected:						
Topic Specific Assessments Required:						
Lead Assessor's Recommendations:						
Continue to review incidents at Angel						

Location:	Northern Line					
Activity:	Working in a train					
No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
14	Trauma	exposure to verbal violence	Single	12 (every week)	4 (Minor)	16, Medium
Description of Hazard (including Location/Grade Specific Issues):						
Dealing with verbally violent customers.						
Controls and their Effectiveness [Y/P]:						
1i Physical modifications - other (CCTV, lighting, etc) [P]						
5b Procedures / Stds - LU and TfL standards (workplace violence) [P]						
6c Incident management - attendance of emergency services (BTP attendance and policing model for NT) [P]						
7b Communication - train radio (reporting) [P]						
7i Communication - other (Customer communication campaign on safe behaviour) [P]						
7i Communication - other (PA and staff WRV communication) [P]						
8b Info / Instruction - publications e.g. manufacturer's instructions (workplace violence information, e.g. 'safer steps guidelines', 'Challenging news') [P]						
13a Training - initial () [P]						
13i Training - other (workplace violence training - not always given during CDP) [P]						
14c Organisational support - TfL OH support of individuals (trauma counselling) [P]						
Persons particularly at risk (not grade):		Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:				
Who / What Else Affected:						
Topic Specific Assessments Required:						
Lead Assessor's Recommendations:						
TUs voiced concerns re absence of Workplace Violence training for NT staff, reps felt this raised risk to "High", agreed a further review 6 months post Night Tube implementation or sooner if a significant rise in incidents should occur.						

Location:	Northern Line					
Activity:	Working in a train					
No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
15	Psychological stress	job demands	Single	13 (every day)	4 (Minor)	17, Medium
Description of Hazard (including Location/Grade Specific Issues):						
Reduced turnaround times, stepping back, stress and concerns regarding keeping to the train timetable. Risk of safety related incidents due to changes in driving modes.						
Controls and their Effectiveness [Y/P]:						
5a Procedures / Stds - Rule Book (Requirement to drive at described times in PM to maintain confidence / competence) [P]						
5b Procedures / Stds - LU and TfL standards (job rotation, rota / roster design, regular breaks, staffing levels) [P]						
8b Info / Instruction - publications e.g. manufacturer's instructions (shift work / fatigue awareness) [P]						
13a Training - initial (Line knowledge and route retention) [P]						
14c Organisational support - TfL OH support of individuals (stress workshops) [P]						
Persons particularly at risk (not grade):		Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:				
Persons in training		8c Info / Instruction - supervision () [Y]				
		13a Training - initial () [Y]				
Who / What Else Affected:						
Topic Specific Assessments Required:						
Lead Assessor's Recommendations:						
Noted that new Night Tube staff may experience anxiety due to new role, management support in place.						

Location:	Northern Line
Activity:	Working in a train

No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
17	Deliberate acts	terrorism	Multiple	6 (every three years)	15 (Fatal)	21, High

Description of Hazard (including Location/Grade Specific Issues):
 Acts of terrorism

Controls and their Effectiveness [Y/P]:

1i Physical modifications - other (CCTV) [P]
 3c Inspections - audits (Station security checks) [P]
 3j Inspections - other (visual check by train operator changing ends) [P]
 5a Procedures / Stds - Rule Book () [P]
 5b Procedures / Stds - LU and TfL standards (hot procedure) [P]
 6a Incident management - emergency preparedness plans () [P]
 6b Incident management - security arrangements (TRANSEC have confirmed no change required to existing security arrangements for NT) [P]
 7b Communication - train radio (Connect radio handheld / PIA -Reporting) [P]
 8a Info / Instruction - briefings / pre-start () [P]

Persons particularly at risk (not grade):	Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:

Who / What Else Affected:

Contractors / Visitors
 Emergency services
 Infrastructure
 Neighbours
 Non-travelling member of the public
 Property damage (major)
 Service loss (major)

Topic Specific Assessments Required:

Lead Assessor's Recommendations:

LUL continues working with external authorities to mitigate risks

Location:	Northern Line					
Activity:	Working in a train					
No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
18	Trauma	exposure to physical violence	Single	9 (every six months)	8 (Moderate)	17, Medium
Description of Hazard (including Location/Grade Specific Issues):						
Dealing with violent customers.						
Controls and their Effectiveness [Y/P]:						
1i Physical modifications - other (CCTV, Lighting) [P]						
6c Incident management - attendance of emergency services (BTP policing model to support NT) [P]						
7b Communication - train radio (Connect Radio PIA) [P]						
7i Communication - other (Customer communication campaign on safe behaviour) [P]						
7i Communication - other (PA and staff communication on WRV) [P]						
8b Info / Instruction - publications e.g. manufacturer's instructions (Workplace violence, Safer Steps, Challenging News) [P]						
13a Training - initial () [P]						
13i Training - other (Workplace Violence training - not always on CDP.) [P]						
14c Organisational support - TfL OH support of individuals (Trauma counselling) [P]						
Persons particularly at risk (not grade):			Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:			
Who / What Else Affected:						
Topic Specific Assessments Required:						
Lead Assessor's Recommendations:						
TUs voiced concerns re absence of Workplace Violence training for NT staff, reps felt this raised risk to "High", agreed a further review 6 months post Night Tube implementation or sooner if a significant rise in incidents should occur.						

Location:	Northern Line
Activity:	Working in a train

No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
19	Health Hazard (Physical)	fatigue	Single	13 (every day)	4 (Minor)	17, Medium

Description of Hazard (including Location/Grade Specific Issues):
 Fatigue caused by shift work and monotony increasing and affecting fatigue levels and the ability to respond quickly to events.

Controls and their Effectiveness [Y/P]:
 5g Procedures / Stds - other (Rosters will be designed in line with best practice) [P]
 5g Procedures / Stds - other (Sample of rosters will be fatigue assessed using the fatigue index tool) [P]
 7b Communication - train radio (Report to Service Control or DTSM when booking on if feeling fatigued.) [P]
 13c Training - refresher (Shiftwork & fatigue awareness training on CDP.) [P]
 14a Organisational support - management support (Awareness of PNR's if feeling fatigued.) [P]
 14g Organisational support - other (Adequate staff provision will be in place for NT implementation) [P]
 14g Organisational support - other (Hot / cold water facilities available at terminus locations.) [P]

Persons particularly at risk (not grade):	Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:

Who / What Else Affected:

Topic Specific Assessments Required:

Lead Assessor's Recommendations:
 TUs voiced concerns re affect of fatigue on NT staff, reps felt this raised risk to "High", agreed a further review 6 months post Night Tube implementation or sooner if a significant rise in incidents should occur.

Location:	Northern Line					
Activity:	Working in a train					
No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
20	Health Hazard (Biological)	contact with contaminated body fluids/syringes/sharps (viruses such as Hepatitis/HIV)	Single	10 (every month)	8 (Moderate)	18, Medium
Description of Hazard (including Location/Grade Specific Issues):						
Contact with contaminated body fluids in saloon or seeping under M door						
Controls and their Effectiveness [Y/P]:						
2b Housekeeping - cleaning (Cleaning standards maintained during night tube) [P]						
5a Procedures / Stds - Rule Book (Incident reporting) [P]						
6c Incident management - attendance of emergency services (BTP Policing model in place to support NT) [P]						
6i Incident management - other (Spare trains available at depots for quick change over of soiled train) [P]						
7i Communication - other (Customer communication campaign on safe behaviour) [P]						
12l PPE - gloves (If available) [P]						
13a Training - initial () [P]						
14a Organisational support - management support () [P]						
14c Organisational support - TfL OH support of individuals () [P]						
Persons particularly at risk (not grade):		Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:				
Who / What Else Affected:						
Topic Specific Assessments Required:						
Lead Assessor's Recommendations:						
None						

Location:	Northern Line
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Activity:	Working in a train
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No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
21	Trauma	witnessing traumatic event	Single	10 (every month)	8 (Moderate)	18, Medium

Description of Hazard (including Location/Grade Specific Issues):
customer trespass incidents and horseplay in the PTI area

Controls and their Effectiveness [Y/P]:
1a Physical modifications - guarding / enclosures (fixed or adjustable, including temporary) (Gating solutions implemented as some affected stations) [P]
5g Procedures / Stds - other (Station specific arrangements in place for non gated stations e.g. staffing) [P]
6a Incident management - emergency preparedness plans (BTP Policing model in place for NT) [P]
6a Incident management - emergency preparedness plans (staff response in line with procedures) [P]
7i Communication - other (Customer communication campaign for safe behaviour) [P]
7i Communication - other (Staff information to customers) [P]
8d Info / Instruction - signage (Signage to reflect non operation of specific lines ESUBS and revised tube maps) [P]
14a Organisational support - management support () [P]
14c Organisational support - TfL OH support of individuals () [P]
14g Organisational support - other (trauma support group) [P]

Persons particularly at risk (not grade):	Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:

Who / What Else Affected:

Topic Specific Assessments Required:

Lead Assessor's Recommendations:
TUs voiced concerns re potential for high levels of horseplay from customers following implementation of NT, review 6 months post Night Tube implementation or sooner if a significant rise in incidents should occur.

Location:	Northern Line
Activity:	Working in a train

No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
22	Health Hazard (Physical)	exposure to hot/cold humidity (e.g.in extreme weather conditions/working environment)	Single	10 (every month)	4 (Minor)	14, Low

Description of Hazard (including Location/Grade Specific Issues):
Hot and cold welfare issues for Train Operator held in the siding/depot for an hour or more.

Controls and their Effectiveness [Y/P]:
15q Welfare - other (Service Control to maintain regular contact with Train Operator while in siding every 20 minutes.) [Y]

Persons particularly at risk (not grade):	Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:

Who / What Else Affected:

Topic Specific Assessments Required:

Lead Assessor's Recommendations:
Anthony Smith

Location:	Northern Line
Activity:	Working in a train

No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
23	Other	any other specific hazard	Single	10 (every month)	4 (Minor)	14, Low

Description of Hazard (including Location/Grade Specific Issues):
 Operating a train in Protective Manual (PM):
 Distraction due to in cab alarms.

Controls and their Effectiveness [Y/P]:
 4m Safe systems of work - other (Following high winds first train to operate in Protected Manual (PM).) [Y]
 5a Procedures / Stds - Rule Book (To adhere to the rules and procedures.) [Y]
 5b Procedures / Stds - LU and TfL standards () [Y]
 6h Incident management - near miss / near hit / incident reporting (In the event of an operational incident.) [Y]
 13a Training - initial (Ergonomics: Training provided for correct posture when sitting in the cab seat.) [Y]
 13b Training - competence assurance (PM operation practice as per line requirements.) [Y]

Persons particularly at risk (not grade):	Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:

Who / What Else Affected:

Topic Specific Assessments Required:

Lead Assessor's Recommendations:
 None

Location:	Northern Line					
Activity:	Working in a train					
No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
24	Other	any other specific hazard	Single	9 (every six months)	8 (Moderate)	17, Medium
Description of Hazard (including Location/Grade Specific Issues):						
Operating a train in Restricted Manual (RM): Operating a train out of the TBTC system (protection).						
Controls and their Effectiveness [Y/P]:						
3a Inspections - PGIs (To ensure regular track PGI's are carried out.) [P]						
4d Safe systems of work - monitoring (RM operation monitored by the Service Control staff.) [P]						
5a Procedures / Stds - Rule Book (To adhere to the rule book procedures.) [P]						
7b Communication - train radio (Using the correct radio protocol.) [P]						
8d Info / Instruction - signage (To obey TBTC signage.) [P]						
13b Training - competence assurance (Annual test of rules, procedures and knowledge.) [P]						
Persons particularly at risk (not grade):			Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:			
Who / What Else Affected:						
Topic Specific Assessments Required:						
Lead Assessor's Recommendations:						
None						

Location:	Northern Line					
Activity:	Working in a train					
No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
25	Other	any other specific hazard	Single	10 (every month)	4 (Minor)	14, Low
Description of Hazard (including Location/Grade Specific Issues):						
Electronic Advertising boards within PTI (Angel)						
Controls and their Effectiveness [Y/P]:						
5a Procedures / Stds - Rule Book (Angel is cat B platform, but could request assisted despatch) [Y]						
5a Procedures / Stds - Rule Book (Rule book, if PTI unclear in ATO stop train via EB or unstow and in PM stop train to check PTI area) [Y]						
7i Communication - other (Line circular to advise drivers to be aware of the advertising board) [Y]						
8a Info / Instruction - briefings / pre-start (Line Circular issued re Angel advertising board) [Y]						
8e Info / Instruction - written communications (Data shows no impact to customer or staff incidents whilst on. Continue to review) [Y]						
10n Equipment - other (New LED screens for 95 stock being rolled out, clarity of image increase) [Y]						
Persons particularly at risk (not grade):			Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:			
Who / What Else Affected:						
Topic Specific Assessments Required:						
Lead Assessor's Recommendations:						
Continue to review Angel incidents and reports from drivers						

Location:	Northern Line					
Activity:	Working in a train					
No.	Hazard Category	Specific Hazard	Persons Injured	Likelihood	Severity	Risk Rating
26	Trauma	involvement in accident / incident	Single	8 (every year)	8 (Moderate)	16, Medium
Description of Hazard (including Location/Grade Specific Issues):						
Verbal and physical assault						
Controls and their Effectiveness [Y/P]:						
5g Procedures / Stds - other (T/Op is permitted to travel in T/Op leading cab or leading saloon back to there home depot.) [P]						
Persons particularly at risk (not grade):			Additional controls for Persons particularly at risk and their Effectiveness [Y/P]:			
Who / What Else Affected:						
Topic Specific Assessments Required:						
Lead Assessor's Recommendations:						
None						