## **MEANZ SAFETY AUDIT CHECK LIST (update Jan 2020)**

Alterations/ additions shown in Red and Change noted in green. MODEL ENGINEERING ASSOCIATION of NZ

#### **CHECK LIST GUIDELINES FOR AUDITORS**

Club				Date
Club Rep Name				Signature
Club Exec Name				Signature
Track Gauges Available:-	○7¼"	○5″	○ 3½" ○ 2½"	Current ADR Number (added)
Does the club have:- Grou	nd Level Tra	ck 🔿	Elevate	d/ Raised Track ()

The attached document has been devised as a way of showing that MEANZ and its member Clubs are actively engaged in the pursuit of a safe environment where the operation of our hobby is married to the pleasure of the public.

It is not intended that the auditing procedure will be anything like a "Police Operation" but rather take the form of an independent check of a Club's safety systems, whilst at the same time passing on and gathering current safety practices.

The "Pool of Auditors" are made up of experienced persons from various MEANZ registered Clubs.

In most cases, the Auditor will be selected by your Club from the list of available auditors. He will possibly join you for an Open Weekend and carry out the audit with a local member assisting while you club is operating.

(Clubs to invite an Auditor from the pool rather than MEANZ or the lead auditors appointing them.)

This system is proposed so that ultimately we can illustrate to the governing powers that we are capable of operating safely and that we have systems in place to ensure that we will continue to operate in a safe manner.

It is hoped that Clubs will view this document as a useful tool rather than an imposition and we look forward to your cooperation to make the system work in our collective favour.

**PORTABLE TRACKS:** The construction and operation of portable tracks are **not** included in the requirements for registration with MEANZ. Clubs will need to make their own arrangements for the control and inspections of their portable tracks and this may well mean a separate registration with Worksafe Safety NZ under the Amusement Device Regulations.

#### **AUDITORS INSTRUCTIONS:**

Tick boxes are placed so that is a simply tick, make an appropriate note if required and go to the next item. This re-issue has maintained the Auditors tick boxes -1/Achieved, 2/Not Achieved, 3/Urgent Action Required with space for brief comment, and 4/NA Not Applicable.

If an item does not comply the auditor may give a time to rectify the non-compliance – say 30 days. The club then needs to send evidence to the auditor that the defect item/s have been rectified before the audit papers are passed to the Lead Auditor for moderation and MEANZ Secretary for filing.

It is important to comment where good practice is non-existence or could be improved, or needs immediate attention to rectify a major hazard.

*Questions that do not apply to the above club, tick the NON APPLICABLE (N/A) box.* 

After each question there is space for the Field Auditor to place comments or make extra notes.

The check list has a number system so use identifying number to reference notes.

Please use and write on this set of forms, keep a copy for your records and return the original complete set to your Lead Auditor for moderation when the audit is completed.

# **1. FORMS AND RECORDS**

**Scope:** It is not an Auditors job to impose their beliefs or ideas on a club, but to view the various operations and records of the club under Audit and, to assess the suitability and adequacy of their systems to achieve the **required safety standards for their particular operation.** Where possible, the daily log book should be an A4 Diary with (added) 1 page per day bound variety rather than loose leaf, where sheets cannot be removed or misappropriated.

1.1 Daily Log Book to record Manager/ Operator, members, visitors, current hazards and locomotives/ passenger carrying rolling stock (added) operating on any track running day or working bee at the club site.

○ Achieved	○ Not Achieved	○ Urgent Action required by	○ N/A
		including end of day closing up to ensure site is lef ompleted by the Day Manager/ Operator for the d	
○ Achieved	○ Not Achieved	○ Urgent Action required by	○ N/A
1.3 Forms to cove	er the following:- Daily C	heck List – Hazards – Incidents – Accidents.	
○ Achieved	○ Not Achieved	◯ Urgent Action required by	○ N/A
1.4 Boiler Test rec corrected) ste		ves, steam road vehicle, steam boats, and stationa	ary (spelling error
○ Achieved	○ Not Achieved	○ Urgent Action required by	○ N/A
1.5 Boiler Inspect	ors Qualifications as per	AMBSC Boiler Rules.	
○ Achieved	○ Not Achieved	◯ Urgent Action required by	○ N/A
1.6 Club rules/ Dr	ivers Instructions – a co	py should be available if requested.	
○ Achieved	○ Not Achieved	◯ Urgent Action required by	
1.7 Health and Sa	fety Document.		
○ Achieved	○ Not Achieved	◯ Urgent Action required by	
1.8 List of Club Ap	oproved Personnel – Gua	ards – Non Steam drivers – Steam Drivers.	
	○ Not Achieved	◯ Urgent Action required by	

	entification folder for loc d contact details of the c	os that run at a club track on a regular basis including photo of the urrent owner.
⊖ Achieved	○ Not Achieved	○ Urgent Action required by
1.9 Ride car inspec	tion records for Passeng	er cars used in regular service at the club.
⊖ Achieved	○ Not Achieved	○ Urgent Action required by ○ N/A
assessed. Whe	re a Local Body Permit of a properly designed and	n high) must be suitable for the job intended. They should be r a Chartered Engineer's Report is available, auditors should accept it constructed structure. Regular inspections by "Competent" people
○ Achieved	○ Not Achieved	○ Urgent Action required by ○ N/A
	ation certificate or letter t a gauge of known accu	confirming that the club boiler test kit pressure gauge has been racy.
○ Achieved	○ Not Achieved	○ Urgent Action required by ○ N/A

1. Detail any notes here.

## 2. HAZARD ASSESSMENT

2.1 Is there an active Hazard Management system in place. Not only should there be a system for identifying and recording Hazards, but also a satisfactory system for follow up action to eliminate, isolate or minimise the Hazard.

○ Achieved	○ Not Achieved	○ Urgent Action required by	○ N/A
	chool groups etc. This sh	t (RAM) document available for visiting groups su ould identify significant hazards for visitors and o	
○ Achieved	○ Not Achieved	○ Urgent Action required by	○ N/A

# 3. STATIONS and BUILDINGS

3.1 First Aid kit location preferably designated by Green Cross, should be easily accessible and well stocked for minor injuries.

○ Achieved	○ Not Achieved	⊖ Urgent Action required by	○ N/A
	ines or appropriate rope ough the station area.	or pipe barriers to indicate to the public a safe di	stance to stand back
○ Achieved	○ Not Achieved	⊖ Urgent Action required by	○ N/A
3.3 List of member	rs with First Aid backgrou	Ind or certificates close to first aid kit.	
○ Achieved	○ Not Achieved	⊖ Urgent Action required by	○ N/A
3.4 Wall map show	ving nearest Doctor, Mec	dical Centre (added) or Hospital Emergency Depar	tment.
○ Achieved	○ Not Achieved	⊖ Urgent Action required by	○ N/A
3.5 Fire Extinguish	ers – Visible with approp	riate signage.	
⊖ Achieved	○ Not Achieved	⊖ Urgent Action required by	○ N/A
3.6 Check Service/	expiry dates on fire exti	nguishers.	
⊖ Achieved	○ Not Achieved	⊖ Urgent Action required by	○ N/A
3.7 Hoses and fire	fighting equipment read	ily available when steam locomotives are operati	ng.
○ Achieved	○ Not Achieved	⊖ Urgent Action required by	○ N/A
3.8 EXIT signs insid	le buildings above exterr	al doorways where people are likely to congrega	te.
○ Achieved	○ Not Achieved	⊖ Urgent Action required by	○ N/A
Detail any note	s here.		

3.

## 4. SIGNAGE

4.1 Warning sign located in station area advising passengers of safety issues such as heat, sparks and oil, leaning out when filming, standing up when train is in motion etc.

○ Achieved	○ Not Achieved	○ Urgent Action required by	○ N/A
4.2 Speed restrie	ctions if deemed necessa	ary for drivers in designated areas.	
○ Achieved	○ Not Achieved	○ Urgent Action required by	○ N/A
4.3 Give Way sig	gns or operating signals a	t diamond crossings or crossovers.	
○ Achieved	○ Not Achieved	O Urgent Action required by	○ N/A
4.4 Other signag	ge necessary for the safe	operation of the railway.	
⊖ Achieved	○ Not Achieved	○ Urgent Action required by	○ N/A
4.5 Public Access	s (added) Restriction sig	ns O Permanent	○ Temporary
○ Achieved	○ Not Achieved	◯ Urgent Action required by	○ N/A
4.6 Signs to keep	Public from accessing a	reas of potential Hazard/ Danger/ Risk areas.	
○ Achieved	○ Not Achieved	◯ Urgent Action required by	○ N/A
4.Detail any	notes here.		

### 5. STATION OPERATION WHEN HAULING PASSENGERS.

The Station Master or Loading Supervisor must ensure all passengers sit facing forward, each wagon is loaded evenly, (added) and advise passengers before the journey that when the train is in motion, to sit still, do not lean out sideways, keep arms in and feet on the support boards at all times, and to remain seated at all times until the train has come to a complete stop.

5.1 Station Master has been appointed.					
○ Achieved	○ Not Achieved	○ Urgent Action required by	○ N/A		
5.2 Is the Station N	Aaster readily identifiable	e.			
○ Achieved	○ Not Achieved	○ Urgent Action required by	○ N/A		
5.3 Are other staff	involved in the Station's	operations readily identifiable.			
○ Achieved	○ Not Achieved	○ Urgent Action required by	○ N/A		
5.4 Are the Safety Instructions being relayed to the passengers.					
	○ Not Achieved	◯ Urgent Action required by	○ N/A		

#### 6. FUEL AND DANGEROUS GOODS STORAGE

Fuel, petrol, LPG, paint and thinners etc should be stowed well away from any naked light, fire place, kitchen, the station, clubrooms or steaming bays area etc.

6.1 Storage Locker or bunker well away from the Station, Clubrooms, or Steaming Bay area.

○ Achieved	○ Not Achieved	○ Urgent Action required by	○ N/A
	e written procedures for uelling area allocated.	the safe refuelling of Petrol, Diesel, L.P.G. Locos	together with a
○ Achieved	○ Not Achieved	○ Urgent Action required by	○ N/A
6.3 Check to ensur	e that fuel or liquid conta	ainers are correctly labelled for their contents.	
○ Achieved	○ Not Achieved	○ Urgent Action required by	○ N/A
6. Detail any n	otes here.		

## 7. WORKSHOP SAFETY

7.1 Check all workshop machines for correctly fitted/ adjusted (added) belt guards and that on any (added) bench grinders, the work rest is adjusted properly.

○ Achieved	○ Not Achieved	○ Urgent Action required by	○ N/A
7.2 Check that Safe	ety Glasses or face shield	s, and ear muffs (added) are available.	
○ Achieved	○ Not Achieved	○ Urgent Action required by	○ N/A
7.3 Check the cond	lition of extension powe	r leads for damage and are fit for purpose. (addec	d)
○ Achieved	○ Not Achieved	⊖ Urgent Action required by	⊖ N/A
7.4 An RCD unit or connected to the formation of the form	-	ould be available for use with portable electrical	power tools
○ Achieved	○ Not Achieved	○ Urgent Action required by	⊖ N/A
7.5 General Tidines	ss of workshop area.		
○ Achieved	○ Not Achieved	○ Urgent Action required by	⊖ N/A
7. Detail any i	notes here.		

## 8. PERMANENT WAY – TRACK – VIADUCTS – BRIDGES – UNLOADING.

**Scope:** It is not the Auditors job to rule on routes, curve radii, or grades. The track bed should be built on stable (or stabilised) ground and have sufficient width to allow comfortable unloading of passengers, anywhere along the line, in the event of a derailment. In the event that this requirement is not able to be achieved on both sides of the track, then the narrow side should be provided with some sort of protection to avoid any possibility of harm to passengers.

Is the Railway operated in both directions? **Yes No** If so then a general walking inspection of the track must be done in both directions looking for any major track misalignment, rotting sleepers or other areas which may need the attention of the maintenance crew.

8.1 Gates or do	ors on tunnels should ha	ave a method of fastening them open and clo	sed.
○ Achieved	○ Not Achieved	◯ Urgent Action required by	() N/A
8.2 Check the w	valking surface on viaduo	cts and bridges for loose or uneven boards.	
OAchieved	○ Not Achieved	○ Urgent Action required by	() N/A
	ucts and bridges for signs egrity failure of the struc	of rotting timbers, rusting steel work and cra ture.	acks in concrete that could
○ Achieved	○ Not Achieved	◯ Urgent Action required by	() N/A
	nd the steaming bays, tu or cause damage to clot	rntable/ traverser areas for any sharp rail end hing etc.	ds or other areas that could
○ Achieved	○ Not Achieved	OUrgent Action required by	() N/A
	-	o close signal posts, trees and foliage that may om centre of track should be achievable.	y interfere with passengers.
○ Achieved	○ Not Achieved	OUrgent Action required by	() N/A
8.6 Extremely lo approaches	-	unnels and under bridges should have Warnir	ng Tapes or signage on the
○ Achieved	○ Not Achieved	○ Urgent Action required by	() N/A
8.7 Elevated rai		anti-tip rails to prevent passenger cars from	
OAchieved	○ Not Achieved	◯ Urgent Action required by	() N/A
		evated track should have a method to prever er ride cars while the train is in motion.	nt passengers from
OAchieved	○ Not Achieved	○ Urgent Action required by	ON/A
8. Detail an	y notes here.		

# 9. ROLLING STOCK, STEAMING BAYS, UNLOADING BAYS AND VEHICLE AND PEDESTRIAN CROSSINGS.

MEANZ clubs are required to have a register of all club and privately owned locos and passengers ride cars, that operate at the club on a regular basis. This register should show all maintenance and safety checks carried out on this equipment. A person or persons should be appointed to keep the register and make sure that the checks are done and recorded at pre-determined intervals.

9.1 Is there a sys	stem of checking all rolli	ng stock, and a register kept.	
⊖ Achieved	○ Not Achieved	◯ Urgent Action required by	○ N/A
	rson, or persons, appoin pre-determined interval	ited to keep the register and make sure that the ches.	ecks are done and
○ Achieved	○ Not Achieved	O Urgent Action required by	○ N/A
		hazard prone area of a club's facility and ideally sho e form of temporary fencing together with some po	
	e form of fencing or tem the steaming bay area.	nporary fencing in place or available to put into plac (added)	e to keep the general
⊖ Achieved	○ Not Achieved	◯ Urgent Action required by	○ N/A
-	, where these areas are ublic by using signage an	part of, or adjacent to, public areas, the club should d/ or barriers.	d endeavour to limit
9.4 Is there any s loading equi		in place to limit public access while in the process of	of unloading or re-
○ Achieved	○ Not Achieved	○ Urgent Action required by	⊖ N/A
•	-	here these facilities are under the maintenance and dition i.e. steps, surface, handrails etc.	control of the club,
	, walkways, steps and ha isidered hazardous to ar	andrails for slippery surfaces, damaged timbers or longered timbers or longered timbers or longered timbers or	oose gravel which
○ Achieved	○ Not Achieved	◯ Urgent Action required by	⊖ N/A
be non-existent. systems for both	However in order to mi	always appears to be a High Risk Area, but recordec nimise the perceived risk, measures should be take destrians. Simple signs are a start with ongoing risk veable barriers.	n to provide warning

9.6 Check that pe	edestrian and vehicle cros	sings are clearly	identified and risk min	imised.
○ Achieved	○ Not Achieved	🔿 Urgent Acti	on required by	() N/A
Members and Vise established.	sitors Equipment. A system	m of recording n	nembers and visitors lo	ocos and ride cars should be
Club's (addec	l) Safety Officer to ensure	that it complies	with the operating clu	It should be checked by <mark>the</mark> b's safety requirements e seats of ride carriages etc.
○ Achieved	○ Not Achieved	⊖ Urgent Acti	on required by	() N/A
10. SIGNALLI	NG.			
Does the club op	perate a signalling system.	⊖Yes	◯ No	
Does the club op	perate	) Flags	Clights	○ Semaphore signals
Obtain a Signal Co	ode of Practice from the c	lub operating th	e signalling system.	
10.1 Chec and as intend		n is giving advice	e to drivers that is not	misleading, works consistently
○ Achieved	○ Not Achieved	🔿 Urgent Acti	on required by	ON/A
	ind check the following:-			
10.2 Are d	lrivers obeying signals as p	per the Signal Co	de of Practice.	
OAchieved	○ Not Achieved	🔿 Urgent Acti	on required by	() N/A
10.3 Are d	lrivers complying with Sta	tion Staff directi	ons.	
○ Achieved	○ Not Achieved	🔿 Urgent Acti	on required by	() N/A
10. Detail a	any notes here.			

## **11. TETHERED RACE CAR TRACKS.**

11.1 Check that spectators are adequately protected by a suitable perimeter fence, well constructed and maintained such that in the event of a break-away, a race car cannot escape through the perimeter.

○ Achieved	○ Not Achieved	⊖ Urgent Action required by	⊖ N/A

# 11. Detail any notes here.

# **12. BOATING PONDS.**

12.1 Ensure that the pond has the required local council approved safety fencing, to keep unsupervised small children out of the pond area.

○ Achieved	$\bigcirc$ Not Achieved	◯ Urgent Action required by	⊖ N/A

12. Detail any notes here.

## **13. ON-GOING SAFETY TRAINING.**

13.1 Clubs should provide some evidence that they have or are implementing an ongoing program of safety training for their members.

13. Detail any notes here.						
○ Achieved	$\bigcirc$ Not Achieved	◯ Urgent Action required by	⊖N/A			

Additional notes or comments by Field Auditors:

MEANZ Club being Audited				
Club contact address				
Club Assistants name	Signature			
Contact email address				
Private Ph number	Cell			
Auditor name	Signature			
Date of Audit				
Repairs/ upgrades to be completed by				
Evidence provided of repairs completed				
Date sent to MEANZ Lead Auditor				
Date sent to MEANZ Secretary				