



## 2010 NORRA Mexican 1000 Rally Racing Guidelines

- The 2010 NORRA Mexican 1000 rally will follow the FIA definition of a Cross Country Rally. Special stages throughout the day timed individually and linked together by liaisons or transit stages.
- The NORRA Mexican 1000 Rally will have 3 days of Special Stages:
  - Day 1 will have 3 Special Stages.
  - Day 2 will have 2 Special Stages.
  - Day 3 will have 2 Special Stages.
- Each Special Stage will be scored individually. Liaisons (transits) will not be scored but have target times and maximum allowable time windows to complete. Penalties will be imposed for early arrival (i.e.: speeding). Failure to meet the maximum transit time will also result in road penalties (i.e.: over time-limit assessments). Ample time is allowed to complete each Liaison section. There is no benefit to speeding and laying up.
- Time windows are computed as follows:
  - For example: Liaison 1 (Laguna Salada – Diablo Dry Lake) is 59.7 miles, the posted speed limit is 80KM/Hr and there is a military checkpoint along the route. Now, calculate Transit Time Window as follows:  $59.7\text{miles} * 1.6\text{KM/Mile} = 95.52\text{KM}$ , driven at 80KM/Hr max speed, the minimum allowable transit will take:  $95.52\text{Km} / 80\text{Km/Hr} = 1.19\text{Hrs}$ .  $1.19\text{Hrs} * 60\text{min/Hr} = 71.64\text{Min}$ . We add an additional 30 minutes to this liaison to allow for traffic conditions, and other variables. Therefore, the acceptable arrival window will be a minimum of 71.64 minutes and a maximum of 101.64 minutes in this example.
- **\*\*All Liaison Transit times will be provided on the Vehicle Time Slip\*\*** the example above is provided to illustrate how Liaison Transit times are developed.
- The Special Stages will be listed on the GPS file as follows:
  - EXAMPLE:
  - Day #1 Special Stage #1 Start: GPS waypoint (D1 SS1 Start)
  - Day #1 Special Stage #1 Finish: GPS waypoint (D1 SS1 Finish)
  - Liaison (transit): **Minimum and Maximum travel times will be provided.**
  - Day #2 Special Stage #1 Start: GPS waypoint (D2 SS1 Start)
  - Day# 2 Special Stage #1 Finish: GPS waypoint (D2 SS1 Finish)
  - Liaison (transit) And so on .....



### **Day 1 Start:**

- Vehicles parade from Mexicali to Laguna Salada
- Vehicles will be lined up in accordance to their registration dates, unless the participant has requested a rear start. This will be the starting order for the first day of the event.
- All vehicles must be lined up and ready to race 15 minutes before their specific start time.
- Failure to be in line or missing your specific starting time will result in re-issuance of a new start time.
- Vehicles will start at 1-minute intervals according to their registration dates.
- After all registered racers are on course, racers that missed their previously appointed starting times will be given the opportunity to start.

### **SPECIAL STAGE START AND FINISH JOB DESCRIPTIONS**

Time Controller/ Marshall (1) - Person who reads and records “Start and Finish times”. The Time Controller is the only person allowed to write on team vehicle time slips and master time control sheets. Time controller is the person responsible for sending teams to the starting line. The Time Controller records start and arrival times, which will be called in to race headquarters over NORRA communications. However, either the controller or the starter, depending on the situation at the start and finish of each Special Stage, can accomplish this task.

Special Stage/Starter (1) - The Person who assists the time controller in receiving moving vehicles to the start and at the finish lines. The Special Stage Starter is the sole individual responsible for counting down the staged vehicles to begin the Special Stage or releasing a vehicle onto a Liaison.

### **SPECIAL STAGE START DESCRIPTION**

- Before a Special Stage Start there will be a control zone of 100ft; within this zone no servicing is allowed on vehicles. The control zone will be marked with a corridor of cones, yellow Time Control signs, stop signs, and two NORRA icon signs.
- Signs will be on both sides of the vehicle lane to the Time Control Marshall and then on to the Special Stage Starter.
- If a vehicle has an issue within the control zone the team needs to notify the time



controller immediately that the appointed start time will be missed. This vehicle must clear the cone corridor and not delay any vehicles ready to take the start.

- If a team is not ready to go on course after the Time Control Marshal has issued a start time, than time for that team will begin, regardless if they are ready or not. **Note: the wise move here is to not approach the time control zone until you are completely ready to start.**
- Upon arrival at a Special Stage Start, vehicles will check in with the Time Controller/Marshall immediately, **but only if ready.**
- A Time Control Marshall is the person responsible for issuing and recording vehicle start and finish times at the beginning and end of each stage.
- The Time Control/Marshall will ask the team “ARE YOU READY TO START” If the team responds “YES” than the Time Control Marshal will assign that teams start/departure time.
- If Driver answers “YES” the Time Control/Marshall will assign the start time and then instruct the team to move to the start.
- Starting Line is designated by a corridor of cones and (2) NORRA Icon signs on each side of the vehicle lane.
- Driver will get a 30 second countdown before they receive the signal to start.
- **IT IS THE TEAM’S RESPONSIBILITY TO MAKE SURE THE START TIME IS RECORDED ON THE VEHICLE TIME SLIP CORRECTLY!**
- The Special Stage/STARTER will count down from 30-15-10-5,4,3,2,1 GO!
- The Time Control Marshal & Special Stage Starter then moves to the next vehicle and so on.....
- **If a vehicle has a problem with the start; he or she needs to be moved immediately from the start to make space for the next vehicle to begin.**
- **The finish time for your special stage is the start or out time for the next liaison.**
- **THE TIME CONTROL/MARSHALL IS THE ONLY PERSON ALLOWED TO RECORD A TIME ON THE VEHICLE TIME SHEET AND THE MASTER TIME SHEET.**



**MEXICAN 1000 RALLY CONTROL SIGNS**

**NORRA ICON**



**TIME CONTROL**



**PRE SIGN (YELLOW)**

**TIME CONTROL**



**CONTROL SIGN (RED)**

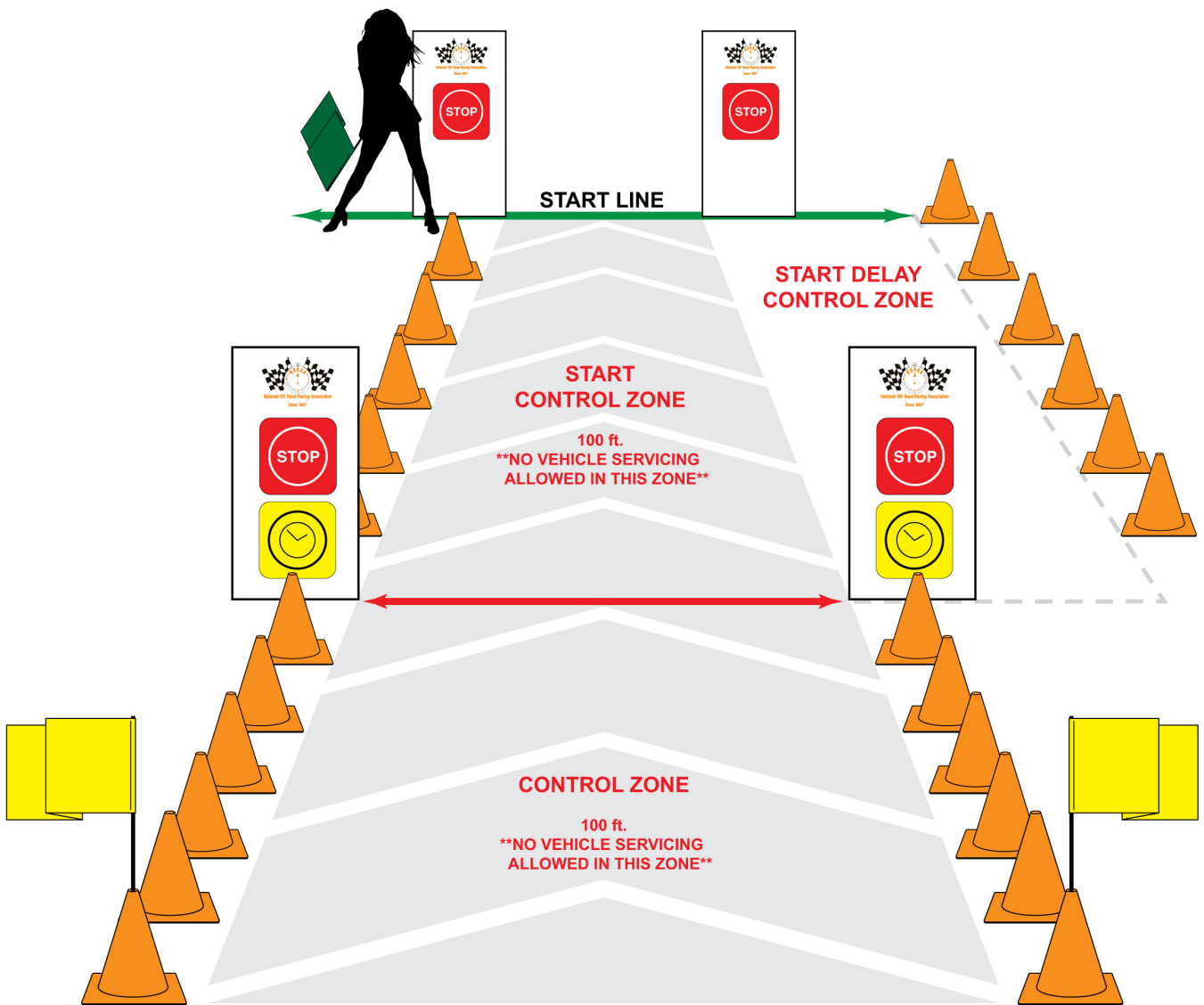
**SPECIAL STAGE STOP CONTROL**



**STOP SIGN (RED)**



**START LINE CONTROL ZONE LAYOUT**





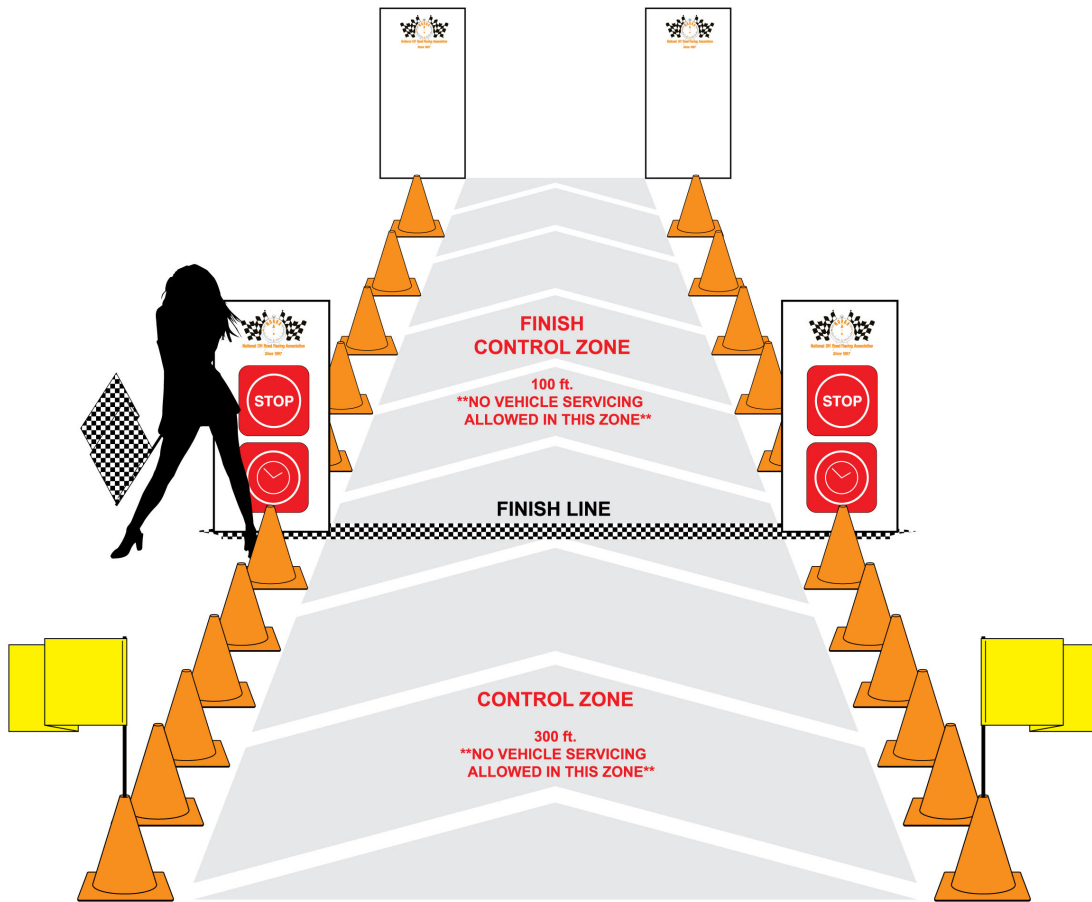
## SPECIAL STAGE FINISH DESCRIPTION

- When a vehicle is approaching a Stage Finish there will be a corridor of yellow cones set off by 2 yellow flags 100 meters (300ft) out. At the actual stage Finish, NORRA Icon placards and stop signs will be displayed on both sides of the vehicle lane.
- Teams need to slow their rate of speed beginning at the corridor of cones and yellow flags 100m or 300ft out and be ready to make a full stop at the stop signs signifying the stage finish. ***This is where your finish time for the special stage will be recorded.***
- The Time Control Finish will be designated by 2 RED STOP SIGNS and 2 NORRA Icons placards.
- ***THERE WILL BE NO FLYING FINISHES, ALL VEHICLES MUST***
- ***COME TO A COMPLETE STOP AT THE NORRA ICON PLACARDS AND RED STOP SIGNS.***
- Failure to slow to a stop at a Time Control/NORRA Icon placard will result in a penalty.
- The Time Control/Finish Marshal will then write the “IN” or “FINISH” time on the vehicle time slip, the master time control log, and the Driver/Rider Time Sheet.
- No one is allowed to stop and or perform any work on a vehicle in the control space, which follows the end of the Special Stage. That control space will be 100 meters or 300 feet following the finish.
- Once the Time Controller/ Marshal records the “FINISH” time, the team will be released for the following liaison/transit.
- ***The finish time for your stage is your “out time/”start time” for the liaison/transit.***

***THE SPECIAL STAGE FINISH TIME CONTROLLER IS THE ONLY PERSON ALLOWED TO RECORD A TIME ON THE VEHICLE TIME SHEET AND THE MASTER TIME LOG.***



**FINISH LINE CONTROL ZONE LAYOUT**



Thank you for reading and following along. On behalf of NORRA, I look forward to seeing you at the 2010 Mexican 1000 Rally!

R/

Ken Cameron  
Rally Master  
NORRA (National Off Road Racing Association)  
kcameron@norra.com  
970-390-1962