

MODEL FOR PERFORMANCE TEST RECORD SHEET

Basic Data

Record Start Time	t_{TS}		[hh:mm:ss]
Record End Time	t_{TE}		[hh:mm:ss]
Nominal Performance	p_n		[p/min]
Set Performance	p_s		[p/min]
Agreed Output	q_{OA}		[p]
Counter at Production Start	q_{PS}		[p]
Counter at Production End	q_{PE}		[p]
Reject Counter at Start	q_{LOS}		[p]
Reject Counter at End	q_{LOE}		[p]
Output Losses not Caused by Machine System	q_{LE}		[p]
Guaranteed Technical Efficiency	E_S		[%]
Guaranteed Quality Factor	Q_S		[%]
Guaranteed Technical Availability	R_S		[%]

Downtime Records

Stop Machine System	Start Machine System	Duration System Related Unplanned Downtime	Duration Unplanned Downtime not Related to System	Duration Scheduled Downtime
		Total System Related Unplanned Downtime [t_{FS}]	Total Unplanned Downtime not Related to System [t_{FE}]	Total Scheduled Downtime [t_D]

Result of the SAT

	Symbol	Calculation	Unit	Result
Record Time	t_{TD}	$= t_{TE} - t_{TS}$	[min]	
Operating Time	t_O	$= t_{TD} - t_D$	[min]	
Running Time	t_R	$= t_O - t_{FS} - t_{FE}$	[min]	
Scheduled Output	q_O	$= p_n * t_O$	[p]	
Manufactured Output	q_M	$= q_{PE} - q_{PS}$	[p]	
Scrap	q_{LQ}	$= q_{LQE} - q_{LQS}$	[p]	
Quality Output	q_Q	$= q_M - q_{LQ}$	[p]	
Technical Efficiency	E_S	$= q_Q / (q_O - q_{LE})$	[%]	
Quality Factor	Q_S	$= q_Q / (q_Q + q_{LQ} - q_{LE})$	[%]	
Technical Delivery Efficiency	D_S	$= q_Q / (q_{OA} - q_{LE})$	[%]	
Technical Availability	R_S	$= t_R / (t_O - t_{FE})$	[%]	