	Region	 Case N	0	
Identifying Number				A/B

### **EMF Phase II Questionnaire**

Please attach the "EMF Form" to this questionnaire.

Section	ě	e de la companya de La companya de la co				Page
1		Appliances in Sleeping Room		 ·	 	3
<u> </u>		Residential Measurement Recor	d	 	 	7

Please take the Phase I questionnaire, a metric tape measure (at least 1 metre long) and a 1 metre length pole with you when making measurements.

Case/control status should *not* be identified on this questionnaire. Child A is the child in the pair with his or her name first in the alphabet. Child B is the other child, regardless of case/control status. For example, if the case were named John **Smith** and the control William **Brown**, the case would be B, and the control A. Please enter Child's ID number and delete A or B as appropriate at the top of all pages

### Section I Appliances in Sleeping Room

### Q1 & Q2

Please fill in questions 1 and 2 from the Phase I questionnaire, before visiting the house for Phase II measurements.

### Q1

This is the room identified in question 1, page 5 of the EMF Phase I questionnaire, in Section I, "Residential Room Identification".

### Q2

The questions about appliances in the sleeping room are questions 7 to 9 on page 9 of the Phase I questionnaire, in Section II, "Residential Appliance Questionnaire".

### Q5, 6 & 7

If one of these appliances was used in the month of interest, please contact the family before the Phase II visit, and ask them if the appliance is still present, and if it can be on during Phase II measurements (NSH or underfloot heating) or sent away for testing (electric blanket).

UKC	CS EMF Phase II Questionnaire: Page 3 Identifying Number A / B
1	Appliances in Sleeping Room
1)	Which room was identified as the "Sleeping Room" in the Phase I questionnaire?
2)	Did the Phase I questionnaire show that any of the following appliances were used overnight during the month of interest, in the sleeping room?
	Night Storage Heater? Electric Blanket? Electric Underfloor Heating?  1=yes; 2=no; 9=NK  1=yes; 2=no; 9=NK
3)	Before Phase II visit, ask:
	Have you acquired any of the following appliances in the sleeping room, since we made Phase I measurements?
)	Night Storage Heater? Electric Blanket? Electric Underfloor Heating? I=yes; 2=no; 9=NK Electric Underfloor Heating? I=yes; 2=no; 9=NK
	If yes: Can you confirm that the new appliance will not be in use during the planned 1=yes; 2=no; 9=NK Phase II visit?  If yes to q. 3), i.e. one of these appliances has been acquired since Phase I, if possible, they should not be operating during Phase II measurements.  If no to question 2), i.e. no NSH, electric blanket and underfloor heating in Phase I: Please move on to Section II.
4)	If yes to <u>NSH</u> in sleeping room in Phase I:  Measurements should be made when the NSH identified in Phase I is normally in use (e.g. during the winter). It should be operating, i.e. on the "ON" cycle, though not necessarily operating constantly, during Phase II.
	Before Phase II visit, ask:  Unable to
	Is the same NSH as in month of interest in the sleeping room today? (please tick)  Ascertain
	Same NSH as Phase I? different NSH to Phase I? or no NSH now?
	If NSH present: Will the NSH be available for use during the planned Phase II visit?
	At Phase II visit
	If Phase I NSH still present, and available for use:
	Will the NSH be operating during the next two nights / 1=yes; 2=no; 9=NK (storing periods)?
	Please record the usual control settings, and the description found next to each dial:
<b>41.</b> 3	What is the distance from centre of the NSH to the extended measurement position, in cm?
	What is the distance from centre of the NSH to a position 20cm below the

Section I Appliances in Sleeping Room (cont.)

JKC	CS EM	IF Phase II Questionnaire: Page 5 Identifying Number A /
		IF Phase II Questionnaire: Page 5
	Appli	iances in Sleeping Room (cont.)
_		
		At Phase II visit, if Phase I NSH still present, and available for use (cont.):
, i		What is the thickness of the NSH casing from front to back in cm?
		Is the NSH charging now? (e.g. is the red light on the wall switch to which the heater is connected on?)
		What is the make and model of the NSH?
	If ves	to underfloor heating in sleeping room in Phase I:
•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Measurements should be made when the underfloor heating identified in Phase I is normally use (e.g. during the winter). It should be operating, i.e. on the "ON" cycle, though necessarily operating constantly, during Phase II.
		Before Phase II visit, ask:
		Is the same system as in the month of interest in the sleeping room today? (please tick) Ascertain
		Same system as Phase I? different system to Phase I? or no underfloor heating now?
		Will the underfloor heating be available for use during planned Phase II visit? 1=yes; 2=no; 9=NK
		At Phase II visit:
	i i i i i i i i i i i i i i i i i i i	Will the system be operating anywhere in the house, over the next two days?  Will the system be operating in the sleeping room, over the next two days?
		Which side(s) of's bed are against the wall? (please tick)  Unable to Ascertain
		Both sides? long side only? short side only? or neither side?
		Where is's mattress located? (please tick)  Unable to Ascertain
		On the floor? in a normal bed/bottom bunk? or in a top bunk?
	If yes	to <u>electric blanket</u> in sleeping room in Phase I:
		Electric blankets identified in Phase I should not be operating during Phase II.
		Before Phase II visit, ask:
	•	Can you confirm that no electric blankets will be used during the planned Phase II visit?
		Do you still have the electric blanket identified in Phase I?
		If yes: Would you consent to this electric blanket being sent away for 1=yes; 2=no; 9=NK
		testing, if the blanket was serviced while away?

## n II Residential Measurement Record

## PHASE II: Measurement Sequence (continued on p.8)

rement position and any comments. For all of the measurements, please use a 1m Emdex pole. th measurement note: room code and description against start/stop no., whether fluorescent tube lights are in the room and on or off, appliances ON or walls < 1m from

: main menu options are given in "CAPITALS", sub-menus in "lower case"

Itery Attach an alkaline 9V battery, switch ON and check the battery status. If it is less than 95% (switching on/off an few times if not), then a new battery is needed.

ick Box Check Measurement: At home, or in the regional centre, please do the following:

(-); press EVENT button; go round display menu with (+) and (-) until "resultant" displayed; press EVENT button to return to main menu.] sure the display is set to "resultant" - to see the black box measure (no need if switching ON as "resultant" is the default). [Go to "DISPLAY" on the main menu with (+)

<u>itch on Black Box</u> - at mains and at the back of the box. A red light should come on at the rear.

trument with (+) and (-) buttons held down together and single push of EVENT button; note reading in mG and b.b. serial no. in appropriate boxes; note "ch" as ) black box; insert fully into black box; wait 3 minutes; check that the reading is around 50 (if it is not 45-56, after checking possible reasons, inform your supervisor); stop asurement code against start/stop no., and "black box check" as measurement description.] ke Black Box Instrument Check Measurement [Go to "RUN" on the main menu with (+) or (-); insert Emdex partially into black box; press EVENT button once; insert fully

with (+) or (-) until "battery" displayed; press EVENT button to return to main menu; go to "STANDBY" or "RUN", whichever appropriate, on main menu with (+) or (-).] ange display to "battery" - so no results seen (might be easier at home). [Go to "DISPLAY" on the main menu with (+) or (-); press EVENT button; go round display

ent in 1m stand at centre of family room; press EVENT button; wait 3 minutes; stop instrument with (+) and (-) buttons held down together and single push of EVENT ke a spot measurement at the centre of the family room - 1 metre high stand [Go to "RUN" on the main menu with (+) or (-); place instrument in stand; place note code and measurement description against start/stop number and ANY APPLIANCES ON OR WALLS< 1m FROM EMDEX.]

rement position to the appliance by the start/stop no. (as usual); additionally, for this measurement only, please record the distance from the appliance to the BMP (the vay down the bed; identify any appliance(s) normally operating overnight; (e.g. night storage heater; clock-radio; other etc.); record distance from the Emdex in this 48-hour ntify the position for bedside 48 hour measurement. [bedside 48 hour measurement position is at bedside on side towards the centre of the room, as close as possible 20cm footwards below the pillow on the midline of the bed] on the line provided at the bottom of the page.

 ELECTRIC BLANKETS MUST BE OFF DURING BED MEASUREMENTS. nulate overnight setup for spot measurements SWITCH ON/OFF MAINS APPLIANCES < 1M FROM EMDEX USUALLY ON/OFF AT NIGHT (this includes immersion

EVENT button; wait 3 minutes; stop instrument with (+) and (-) buttons held down together and single push of EVENT button; note code and measurement description ke a spot measurement at the 48 hour measurement position - 1 metre high stand. [Go to "RUN" on the main menu with (+) or (-) ;place instrument in 1m stand; start/stop number and ANY APPLIANCES ON OR WALLS< 1m FROM MEASUREMENT POSITION.]

Identifying Number	 hase II Questionnaire: Page 7
Region Case No.	

S EMF Phase II Questionnaire: Page 7	(	dentifying Number A / B
Residential Measurement Record		
REMEMBER TO C	CHANGE S	SAMPLING RATE TO 10s FOR EXTENDED 48 HOUR MEASUREMENT
er Start Date (index home) Day Month	LJ	
Number Stop Date (index home) Stop Date	th Year	Stop Time (index home) Initial Check BB Serial No. Final Check BB Serial No.
Wirment Measurement Description	Fluorescent ( Tube Light /	Operating Electrical Appliances or Wall < 1 m from Emdex Comments  Appliance 1 Appliance 2 Appliance 3 (Include description of "other" appliances)
	Present ON (1=y.2=n,9=nk)	tlance ON (1=y, Appliance Distance ON (1=y, Code (cm) 2=n,9=nk) Code (cm) 2=n,9=nk)
	-	
nces from the BMP to overnight appliances (if any):	): 	
es:	)w. es=spot	checheck, bd=centre of bed; pl=pillow, es=spot measurement in 48-hour measurement position, fr=family room, et=extended time 48 hour measurement, ig=ignore
11-which Figure 10-section for the	n <b>13</b> -electi	1-yener, 4-yener, o-case room resear, 4- resulting machine, 6- distribution, 6- distributio

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## n II Residential Measurement Record

# PHASE II: Measurement Sequence (cont.): Instructions for previous page

s; stop instrument with (+) and (-) buttons held down together and single push of EVENT button; note code and measurement description against start/stop number and PPLIANCES ON OR WALLS 1m FROM MEASUREMENT POSITION.] (ETS MUST BE OFF DURING BED MEASUREMENTS. [Go to "RUN" on the main menu with (+) or (-); place instrument on centre of pillow; press EVENT button; wait 3 ke a spot measurement on centre of child's pillow This is with the Emdex on the centre of the pillow, with display pointing towards the headboard. ELECTRIC

EVENT button; wait 3 minutes; stop instrument with (+) and (-) buttons held down together and single push of EVENT button; note code and measurement description start/stop no. and ANY APPLIANCES ON OR WALLS< 1m FROM MEASUREMENT POSITION.] I pillow. ELECTRIC BLANKETS MUST BE OFF DURING BED MEASUREMENTS. [Go to "RUN" on the main menu with (+) or (-); place instrument on centre of bed; ke a spot measurement on centre of child's bed This is with the Emdex on the centre of the bed (halfway down from top to bottom, & left to right), with display pointing

-adjust the ON/OFF status of appliances which have been changed to simulate overnight.

;" displayed; press EVENT button to return to main menu; go to "RUN" on main menu with (+) or (-)] JUST INSTRUMENT SAMPLING RATE TO 10 SECONDS [Go to "RATE" on main menu with (+) or (-); press EVENT button; go round "rate" menu with (+) or (-) until

er and single push of EVENT button; note code (ET) and measurement description against start/stop no. and ANY APPLIANCES ON OR WALLS < 1M FROM not to come near the stand with electrical appliances such as vacuum cleaners, hair dryers, computer games etc.; stop instrument with (+) and (-) buttons held down I button to start instrument sampling; put Emdex into the stand head; secure lid of the stand head with a key; leave the Emdex sampling for a minimum of 48 hours; ask the ke the continuous 48 hour bedside measurement - 1m metre high stand [Put stand in position chosen in 5). Go to "RUN"; partially insert Emdex into stand; press JREMENT POSITION.]

| "1.5 sec" displayed; press EVENT button to return to main menu; go to "RUN" on main menu with (+) or (-)] JUST INSTRUMENT SAMPLING RATE BACK TO 1.5 SECONDS [Go to "RATE" on main menu with (+) or (-); press EVENT button; go round "rate" menu with (+) or

Repeat Spot Measurement Scheme In precisely the following order, make the following 3 minute spot measurements:

- 14) Simulate overnight situation in bedroom i.e. repeat (6)
- Centre of bed spot measurement, i.e. repeat (9)
- Pillow spot measurement, i.e. repeat (8).
- Bedside 48 hour measurement position spot i.e. repeat (7);
- Re-adjust on/off status of appliances i.e. repeat (10);
- 19) Family room spot measurement, i.e. repeat (4);

peat Black Box Check Measurement [2) above]. Do NOT make any more measurements, e.g. a school measurement or another house measurement until:

- A: This repeat black box check measurement is made.
- The Phase II measurements have been downloaded (to filename "coded study no"+".mdx" e.g. "01123a.mdx") and verified

N.B. DO NOT SWITCH OFF EMDEX UNTIL DATA DOWNLOADED TO FLOPPY AND VERIFIED.